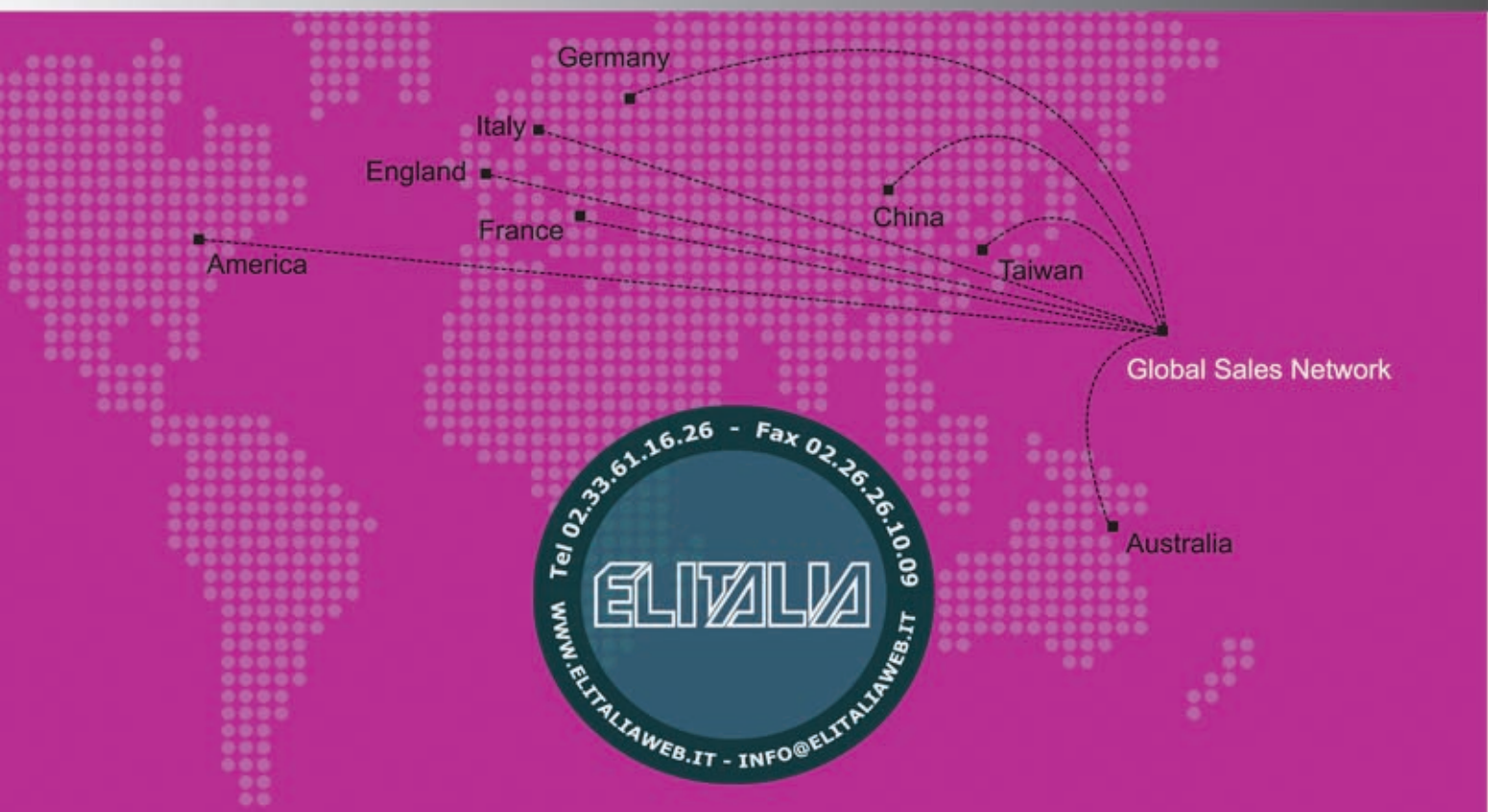




TAIWAY | **Turn on the world** |

ROTARY-DIP-TACT SWITCH CAT. part 4

IECQ QC 080000 / ISO 9001 / 14001



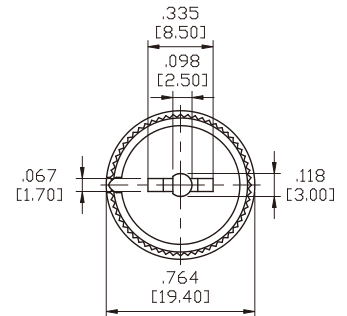
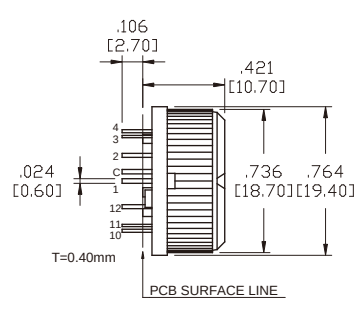
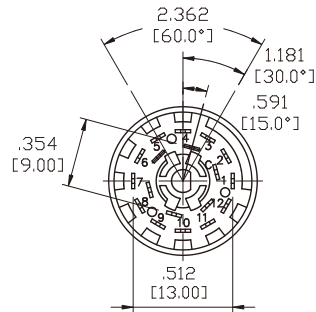
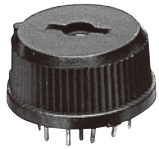
TAIWAY Since 1976

SPECIFICATIONS:

CONTACT RATING: AC/DC 150V 130mA.
ELECTRICAL LIFE: 15,000 cycles at full load
CONTACT RESISTANCE: 25mΩ max. initial.
INSULATION RESISTANCE: 100MΩ max.
DIELECTRIC STRENGTH: 1,000 V RMS @ sea level.
OPERATING TEMPERATURE: -30°C to +80°C.
STOPS: Adjustable 2 through 12 position -30°C indexing.

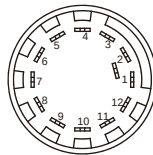
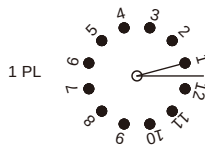
MATERIALS:

SHAFT: Aluminum.
COVER: PA.
BASE: PA.
CONTACTS: PBS+Ag.
TERMINALS: Brass+Ag.
MOVEMENT: PA.
SPRING: SUS.



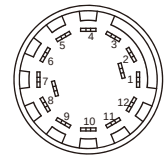
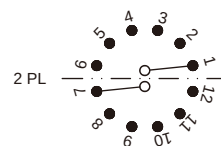
Model No.	Switching Position
8405-1	1P-12Pos

Schematic



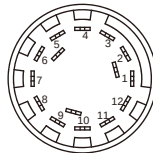
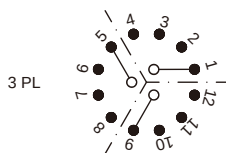
Model No.	Switching Position
8405-2	2P-6Pos

Schematic



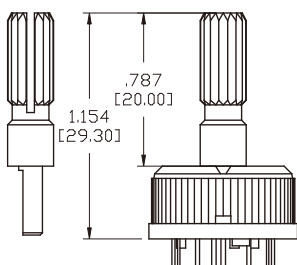
Model No.	Switching Position
8405-3	3P-4Pos

Schematic

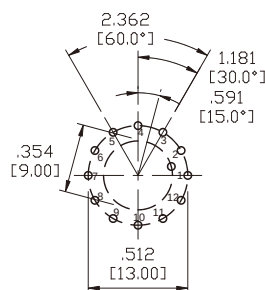


SHAFT OPTIONS

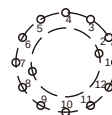
A = With Shaft
B = Without Shaft



P.C.MOUNTING



8405-1 MODELS



8405-2 MODELS



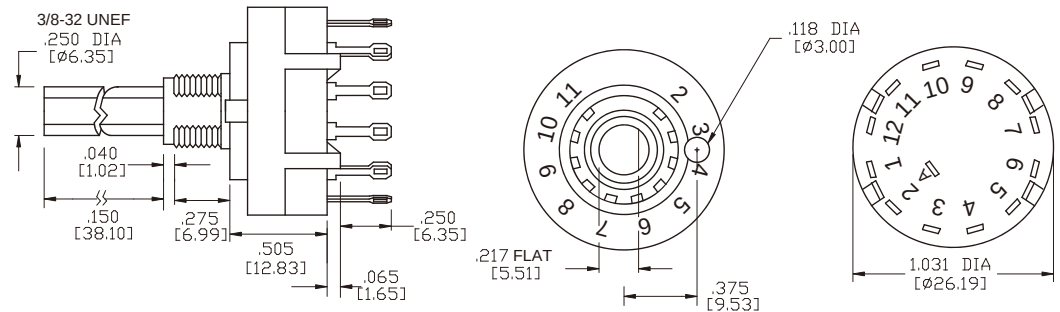
8405-3 MODELS

SPECIFICATIONS:

CONTACT RATING: 350mA @ 110V (AC or DC).
 150mA @ 250V (AC or DC).
 CURRENT CARRYING CAPACITY: 5A continuous. (Non-switching)
 ELECTRICAL LIFE: 15000 cycles at full load up to 30,000
 detent operations.
 CONTACT RESISTANCE: 20mΩ max. initial.
 DIELECTRIC STRENGTH: 1000 V RMS @ sea level.
 OPERATING TEMPERATURE: -20°C to +85°C.
 STOPS: Adjustable 2 through 12 position -30°C indexing.

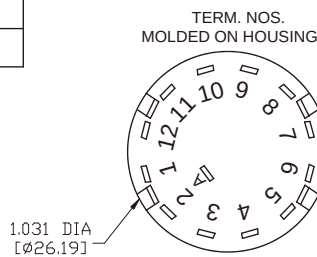
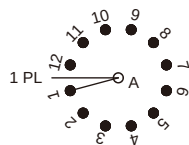
MATERIALS:

SHAFT: Glass filled nylon, color-gray.
 COVER: Glass filled nylon, color-gray.
 BASE: Glass filled nylon, color-gray.
 CONTACTS: Brass, silver plated.
 TERMINALS: Brass, silver plated.
 HARDWARE: Nut-Zinc, nickel plated.
 LOCKWASHER: Steel, bright Zinc plated.
 STOP RING: Brass, nickel plated.



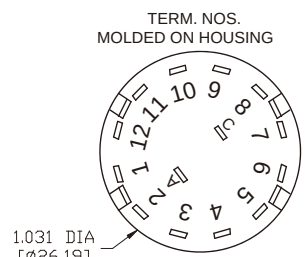
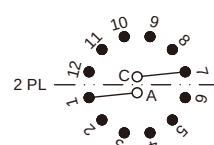
Model No.	Switching Position
8404-1	1P-12Pos

Schematic



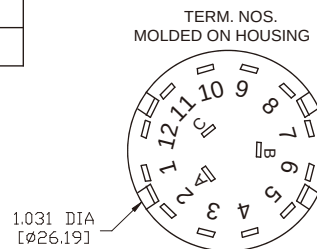
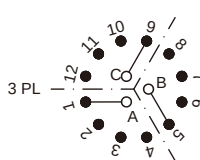
Model No.	Switching Position
8404-2	2P-6Pos

Schematic



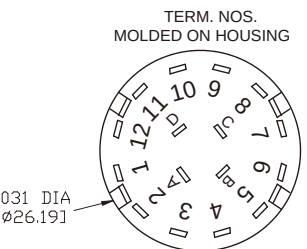
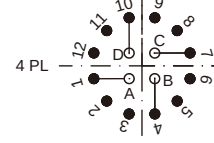
Model No.	Switching Position
8404-3	3P-4Pos

Schematic

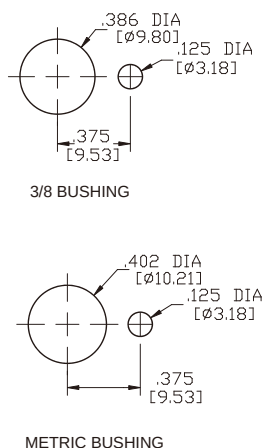


Model No.	Switching Position
8404-4	4P-3Pos

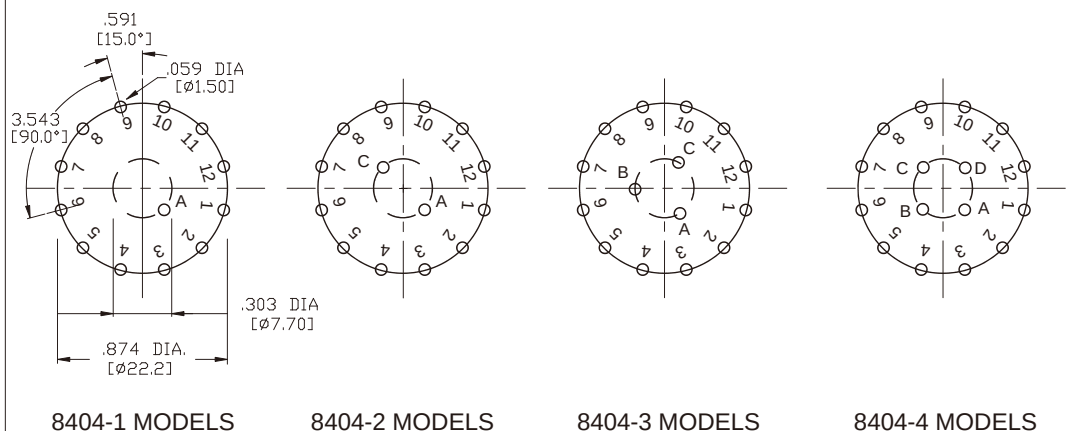
Schematic



PANEL MOUNTING

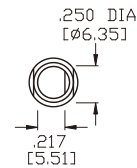
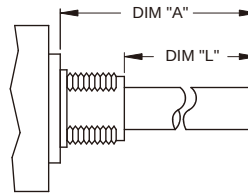


P.C.MOUNTING



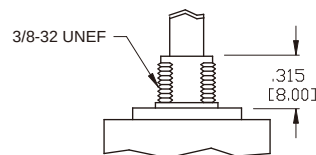
ACTUATOR OPTIONS

Actuator	DIM"A"	DIM"L"
38	1.496 [38.00]	1.181 [30.00]
29	1.142 [29.00]	.827 [21.00]
21	.827 [21.00]	.512 [13.00]
18	.709 [18.00]	.394 [10.00]
15	.591 [15.00]	.276 [7.00]



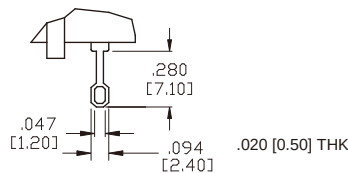
BUSHING OPTIONS

E STD.

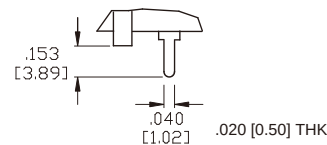


TERMINATION OPTIONS

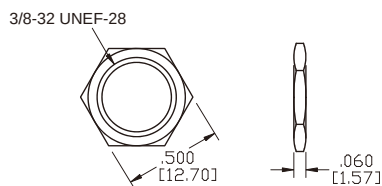
B STD.



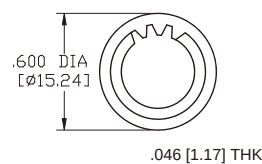
C PRINTED CIRCUIT



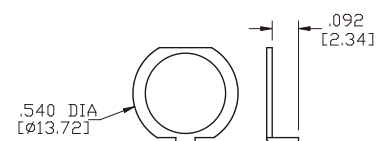
NUT



LOCK WASHER



STOP RING



CONTACT OPTIONS

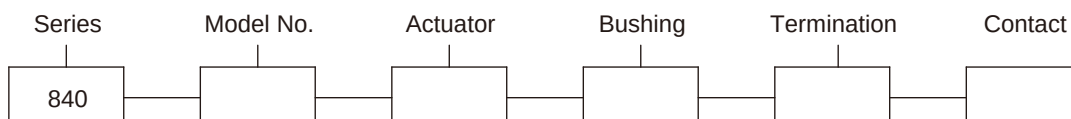
NS STD.

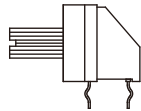
Non-Shorting Contacts: Break before make

SC

Shorting Contacts: Make before break

HOW TO ORDER





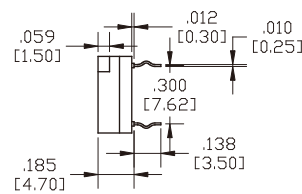
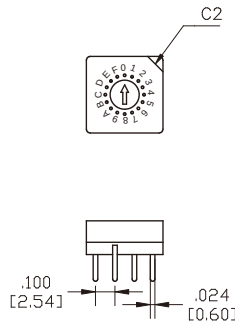
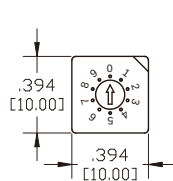
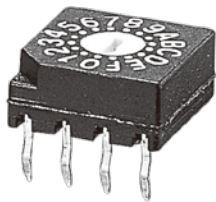
SPECIFICATIONS:

OPERATING VOLTAGE: 24V DC max.
 SWITCHING CURRENT: 100mA max. RxJ 15mA max.
 CARRYING CURRENT: 0.5A max.
 CONTACT RESISTANCE: 100mΩ max.
 INSULATION RESISTANCE: 1,000MΩ min. RxJ 100MΩ
 DIELECTRIC STRENGTH: 300VAC for 1 min.
 OPERATING TEMPERATURE: -10°C to +70°C.
 SOLDERING TEMPERATURE: 250 ± 5°C for 5 sec.
 LIFE: 10,000 step operations min.

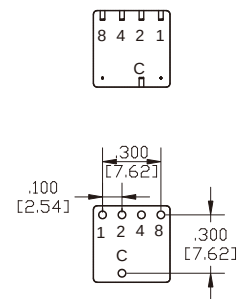
MATERIALS:

HOUSING & KNOB: Thermoplastic.
 PRINTED CIRCUIT BOARDS: Hard gold plated over nickel plated on epoxy fiberglass.
 CONTACTS & TERMINATIONS: Precious metal on phosphor bronze.

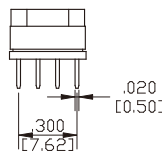
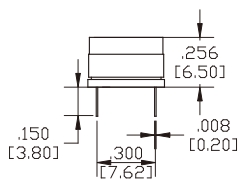
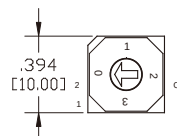
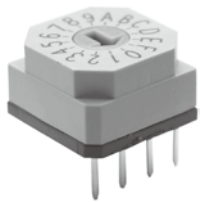
R1



P.C.MOUNTING



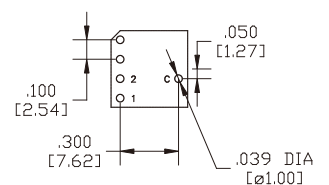
R1J



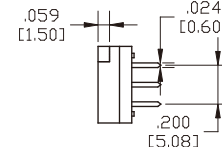
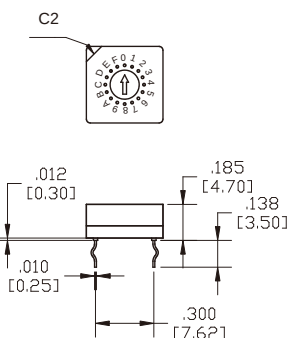
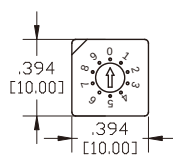
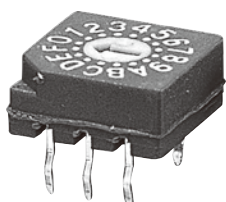
04
BCD-4 POSITION

POSITION	Common C contacted ●		
	C	1	2
0	●		
1	●	●	
2	●		●
3	●	●	●

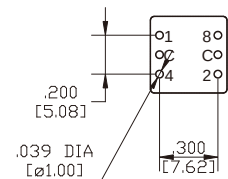
P.C.MOUNTING



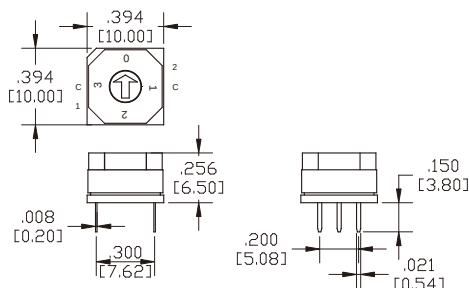
R2



P.C.MOUNTING



R2J

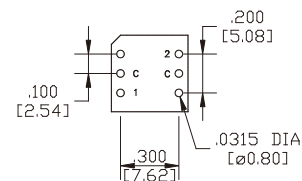


04

BCD-4 POSITION

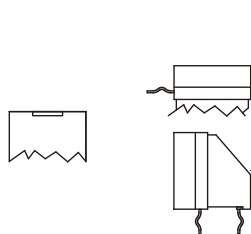
POSITION	Common C contacted		
	C	1	2
0	●		
1	●	●	
2	●		●
3	●	●	●

P.C.MOUNTING

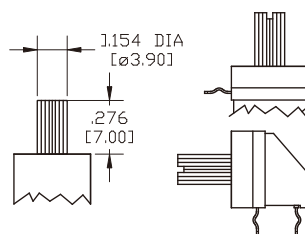


ACTUATOR OPTIONS

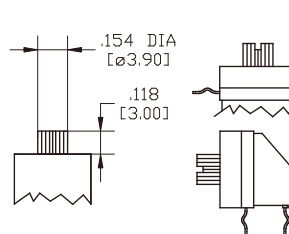
T1 FLUSH



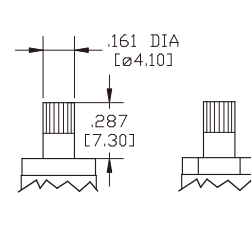
T2



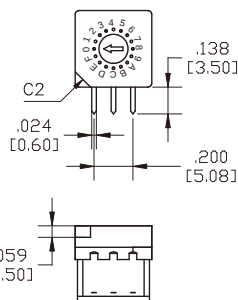
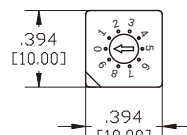
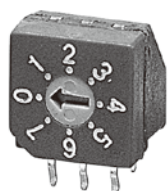
T3



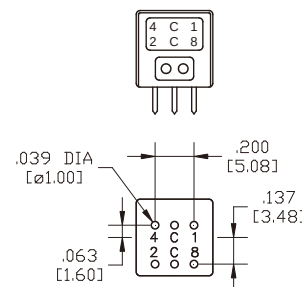
T4 (RxJ ONLY)



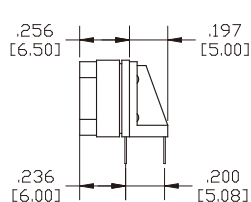
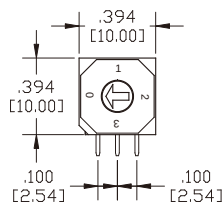
R3



P.C.MOUNTING



R3J

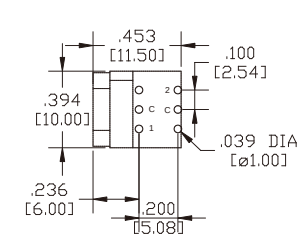


04

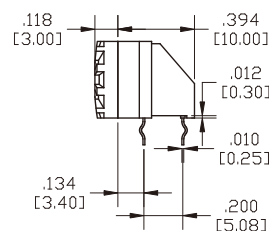
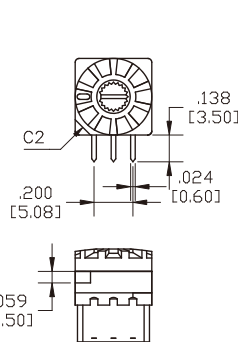
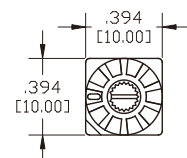
BCD-4 POSITION

POSITION	Common C contacted		
	C	1	2
0	●		
1	●	●	
2	●		●
3	●	●	●

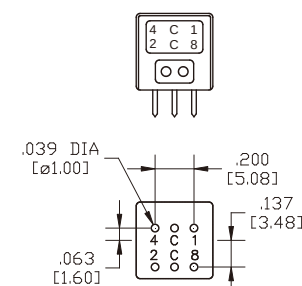
P.C.MOUNTING



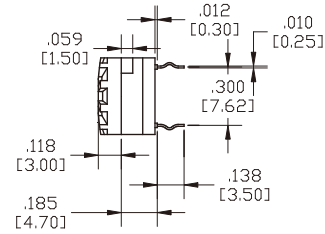
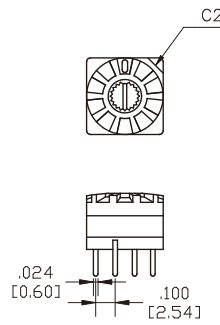
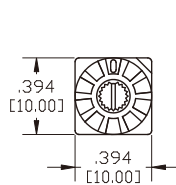
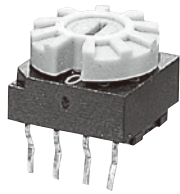
R4



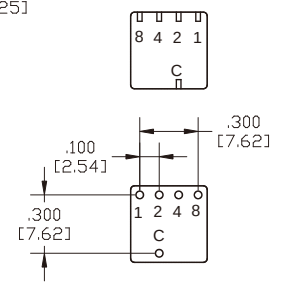
P.C.MOUNTING



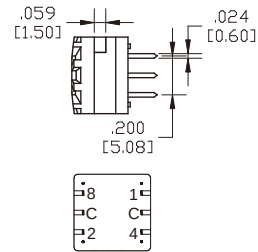
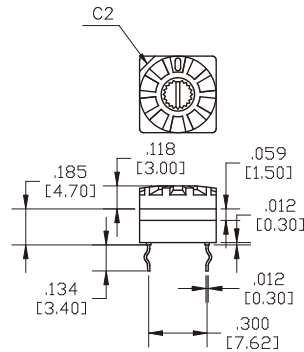
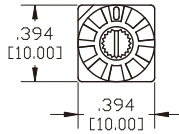
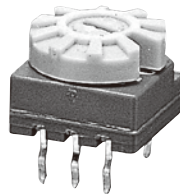
R5



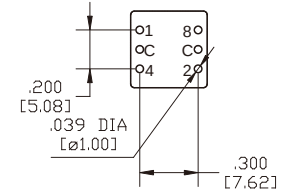
P.C.MOUNTING



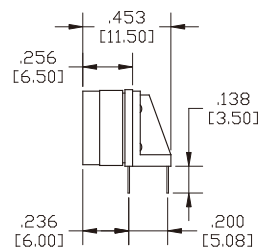
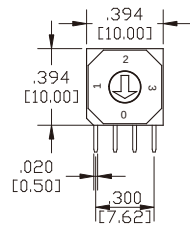
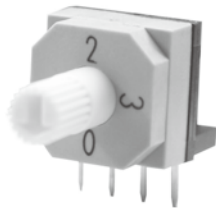
R6



P.C.MOUNTING



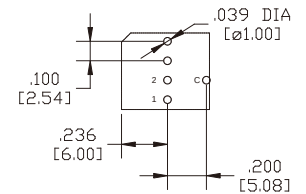
R7J



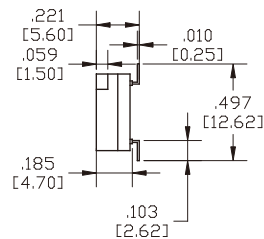
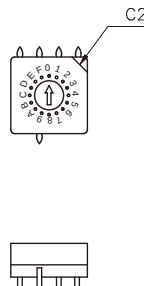
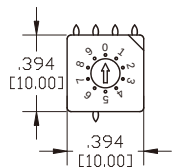
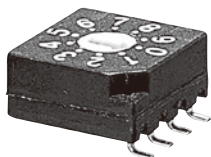
04
BCD-4 POSITION

POSITION	Common C contacted		
	C	1	2
0	●		
1	●	●	
2	●		●
3	●	●	●

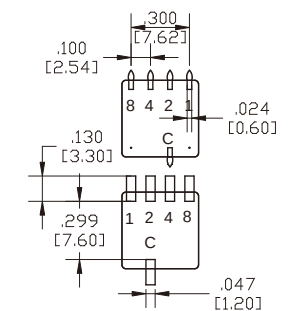
P.C.MOUNTING



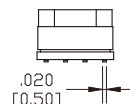
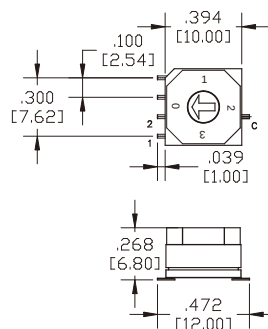
R1B



SURFACE MOUNTING



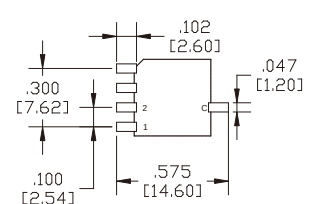
R1BJ



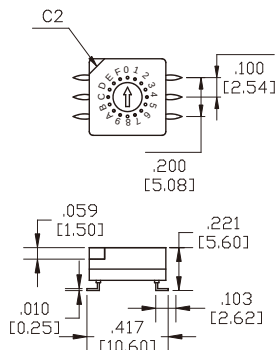
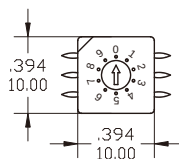
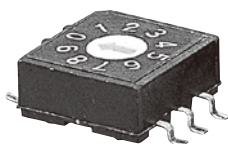
04
BCD-4 POSITION

POSITION	Common C contacted		
	C	1	2
0	●		
1	●	●	
2	●		●
3	●	●	●

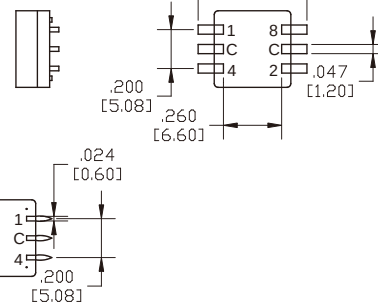
SURFACE MOUNTING



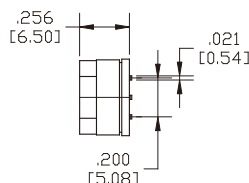
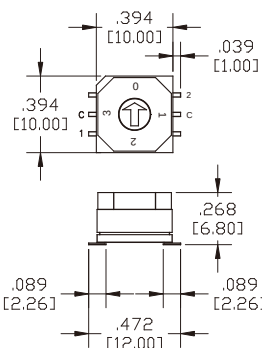
R2B



SURFACE MOUNTING

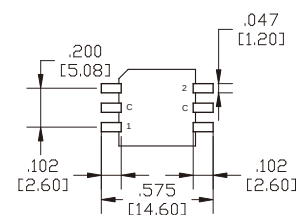


R2BJ



04 BCD-4 POSITION

POSITION	Common C contacted		
	C	1	2
0	●		
1	●	●	
2	●		●
3	●	●	●



CODES (NOT FOR RxJ MODEL)

CODE NO:11 BCD-8 POSITION

Position	Common C contacted				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●

CODE NO:12 BCD-10 POSITION

Position	Common C contacted				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●

CODE NO:14 BCD-16 POSITION

Position	Common C contacted				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A	●	●			●
B		●	●		●
C	●		●		●
D	●	●	●		●
E		●	●		●
F	●	●	●		●

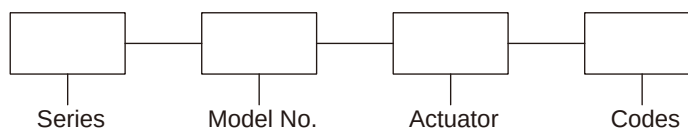
CODE NO:31 BCD COMP.-10 POS.

Position	Common C contacted				
	1	2	4	8	C
0	●	●	●	●	●
1		●	●	●	●
2	●		●	●	●
3			●	●	●
4	●	●		●	●
5		●		●	●
6	●			●	●
7				●	●
8	●	●	●		●
9		●	●		●

CODE NO:33 BCD COMPLEMENT-16 POS.

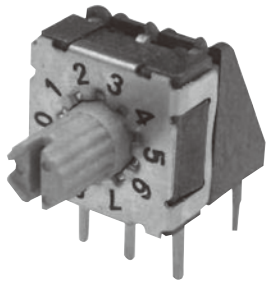
Position	Common C contacted				
	1	2	4	8	C
0	●	●	●	●	●
1		●	●	●	●
2	●		●	●	●
3			●	●	●
4	●	●		●	●
5		●		●	●
6	●			●	●
7				●	●
8	●	●	●		●
9		●	●		●
A	●		●		●
B		●	●		●
C	●	●			●
D				●	●
E	●			●	●
F		●	●		●

HOW TO ORDER



(G)Grey / (W)White Actuator = Positive Logic

(R)Red / (P)Pink Actuator = Negative Logic



NEW !
IP 67 Protection

SPECIFICATIONS:

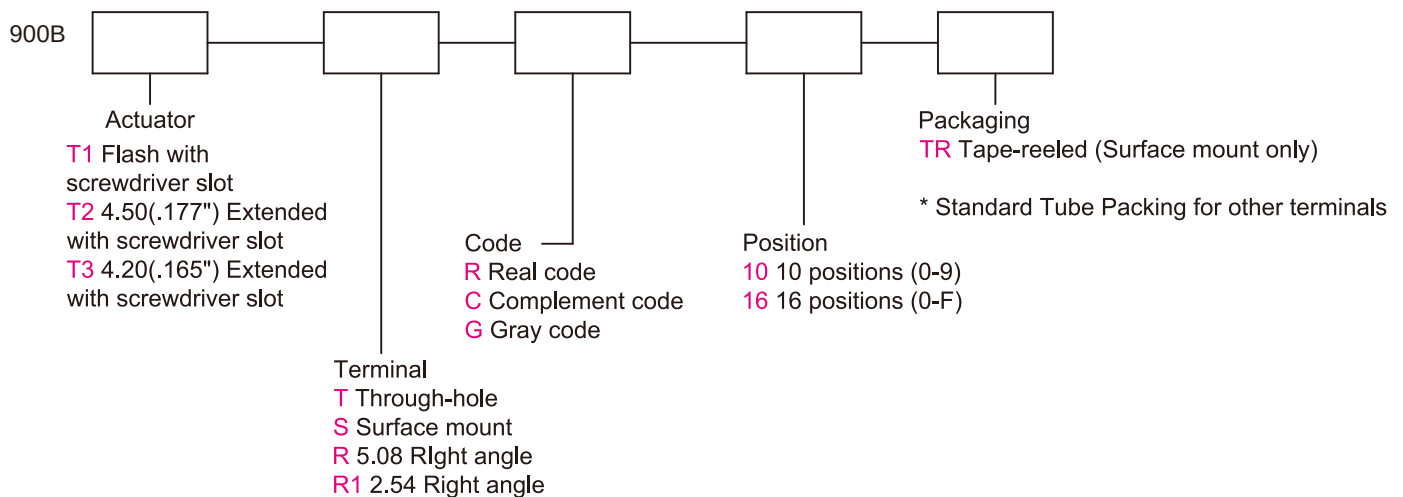
CONTACT RATING: (Non-switching)400mA 42V,
(Switching)100mA 42V.
ELECTRICAL LIFE: 25,000 make-and-break cycles at full load.
CONTACT RESISTANCE: 80m-ohms max. initial @2-4VDC
INSULATION RESISTANCE: 250VDC, 1,000M-ohms min.
DIELECTRIC STRENGTH: 250VAC for 1 minute.
OPERATING FORCE: 120±30gf.
OPERATING TEMPERATURE: -60°C to +125°C.

MATERIALS:

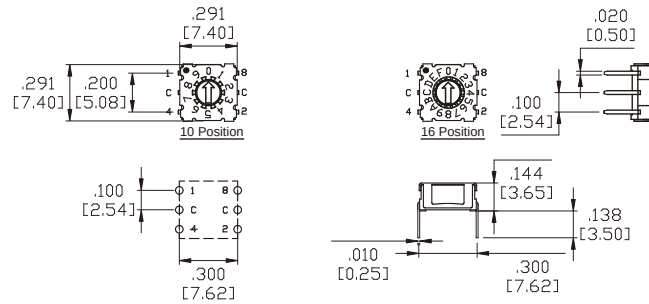
COVER: Stainless Steel.
ACTUATOR: LCP.
BASE: LCP.
O-RING: Silicone.
CONTACT & TERMINAL: Phosphor bronze, gold over nickel plated.

If your preferred product configuration is not shown, please contact our sales representative for custom design.

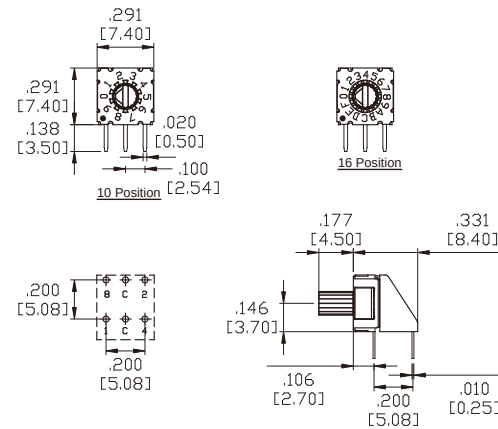
HOW TO ORDER SYSTEM



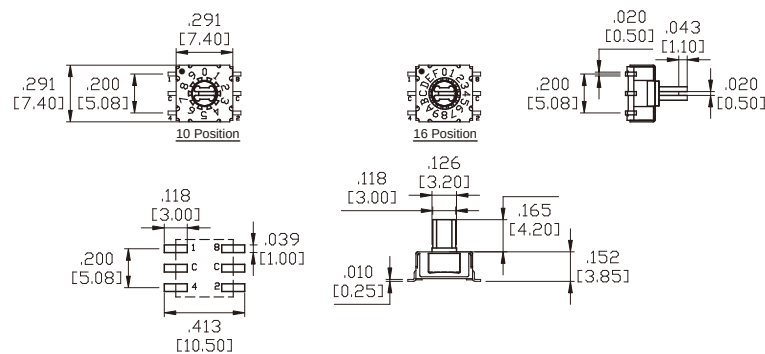
THROUGH HOLE



RIGHT ANGLE

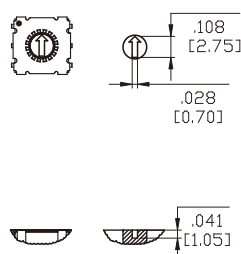


SURFACE MOUNT

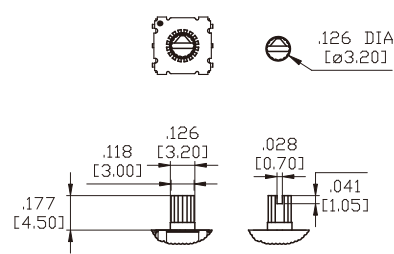


ACTUATOR OPTIONS

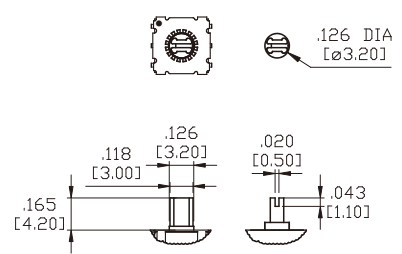
T1 FLUSH



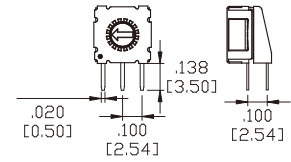
T2 SCREWDRIVER SLOT



T3 SCREWDRIVER SLOT



R1 2.54 RIGHT ANGLE



C COMPLEMENT CODE

		Complement Code					
		C	1	2	4	8	
Position	0	•	•	•	•	•	0
	1	•		•	•	•	1
	2	•	•				2
	3						3
	4	•	•		•	•	4
	5			•			5
	6	•					6
	7						7
	8	•	•		•	•	8
	9			•	•		9
	10						A
	11				•		B
	12	•	•				C
	13		•				D
	14	•					E
	15						F

Actuator Color: Blue

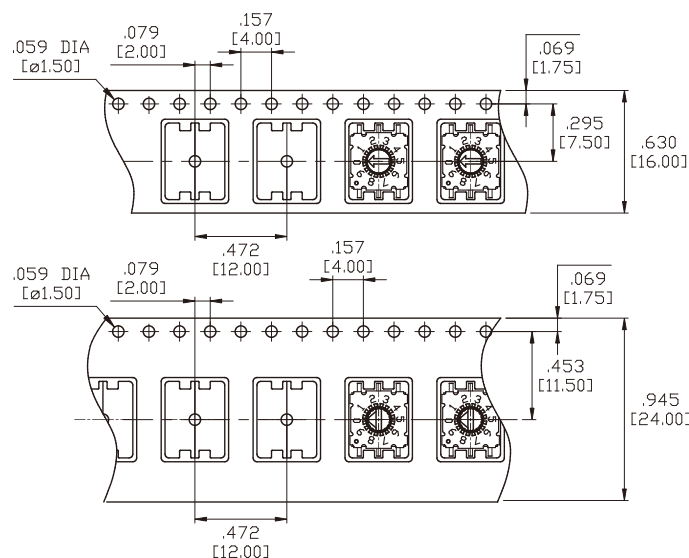
		Gray Code					
		C	1	2	4	8	
Position	0						0
	1	•	•				1
	2	•	•	•			2
	3	•		•			3
	4	•					4
	5	•	•	•	•		5
	6	•	•		•		6
	7	•		•			7
	8	•			•	•	8
	9	•	•				9
	10	•		•	•	•	A
	11	•		•	•	•	B
	12		•	•	•	•	C
	13	•	•	•		•	D
	14	•		•			E
	15	•			•		F

Actuator Color: Blue

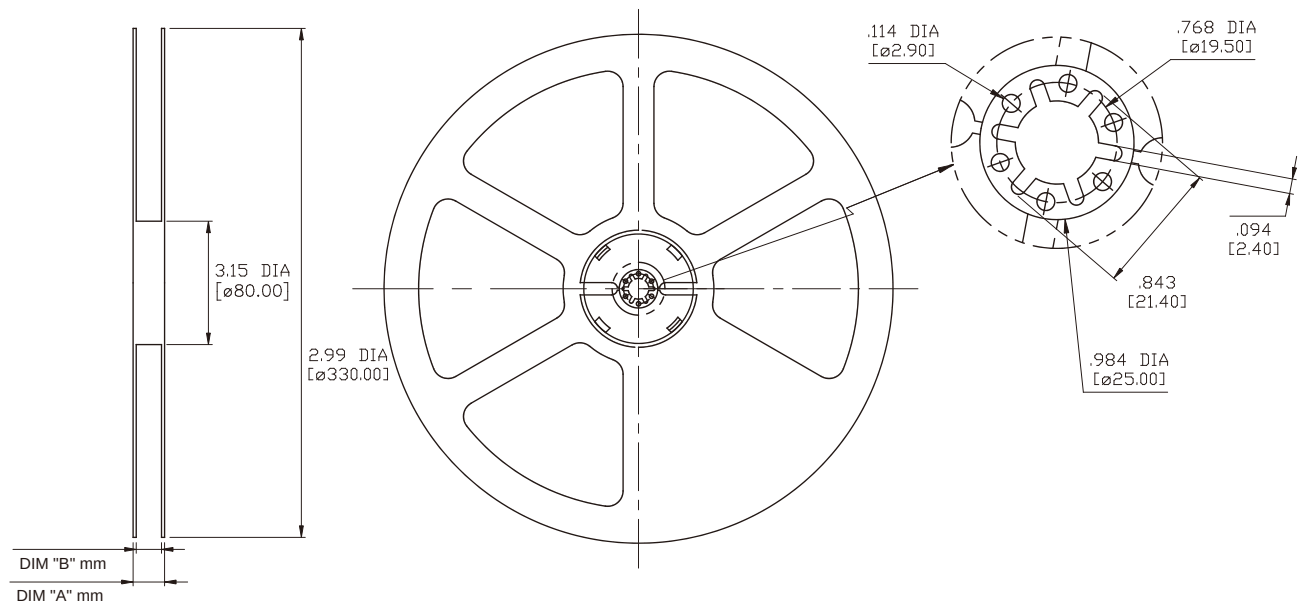
16 16-POSITION



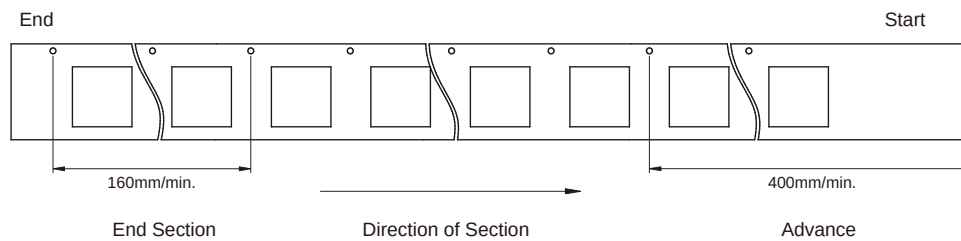
WITH ACTUATOR



TAPE & REEL PACKING



MODEL	Units(pcs)	A	B
W/O ACTUATOR	1300	22.40	16.40
WITH ACTUATOR	600	30.40	24.40



SPECIFICATIONS:

CONTACT RATING: 50mA 12V DC.
 CONTACT RESISTANCE: 100m-ohms max. at 1A 2-4VDC.
 INSULATION RESISTANCE: 100M-ohms max. @ 500VDC.
 WITHSTAND VOLTAGE: 100VAC RMS for 1 min.
 ENDURANCE: 10,000 cycles @ 10 cpm.

TOTAL TRAVEL: 0.25mm.

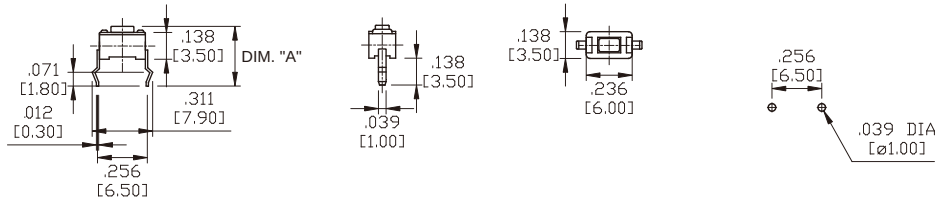
Specifications and Dimensions subject to change

KRS-0312

P.C.B. LAND PATTERN



L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]

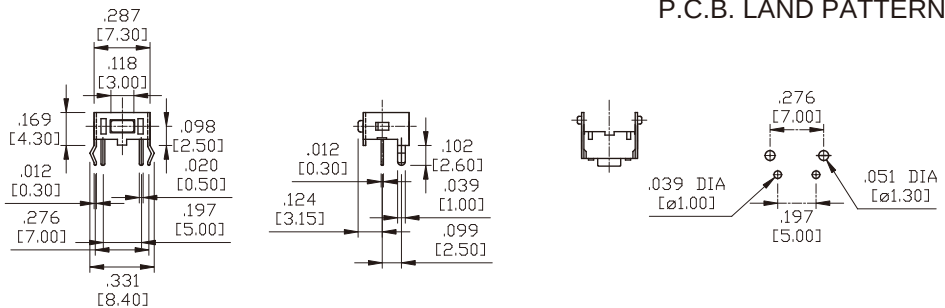


KRS-0314

P.C.B. LAND PATTERN



L	DIM. "A"
1	.124 [3.15]
2	.152 [3.85]

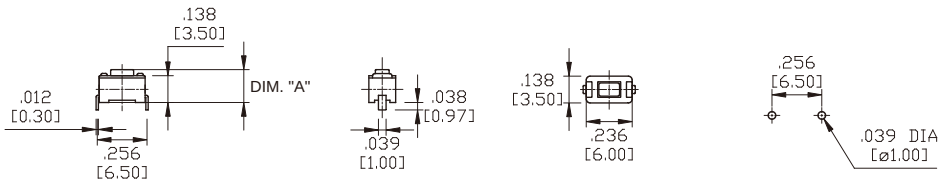


KRS-0315

P.C.B. LAND PATTERN



L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]

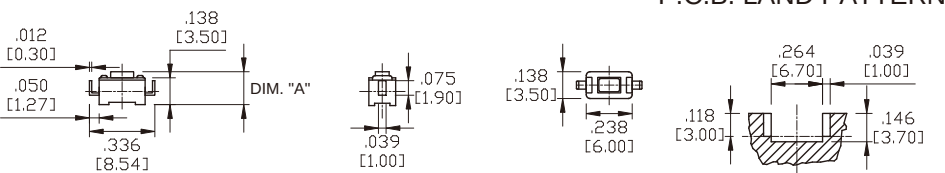


KRS-0316

P.C.B. LAND PATTERN



L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]

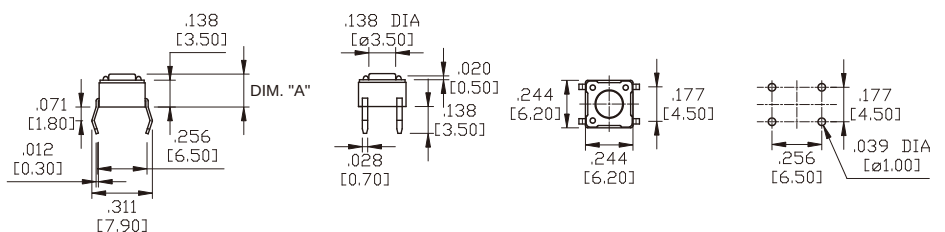


KRS-0612

P.C.B. LAND PATTERN



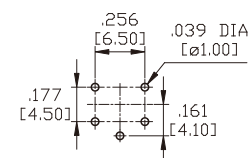
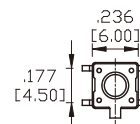
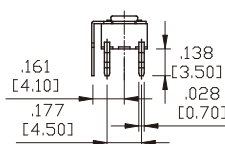
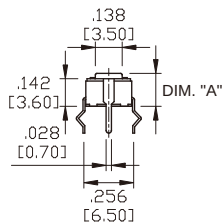
L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]
3	.276 [7.00]
5	.374 [9.50]
6	.512 [13.00]
7	.531 [13.50]
8	.315 [8.00]



KRS-0613



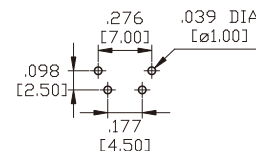
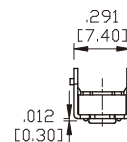
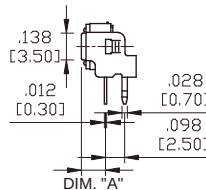
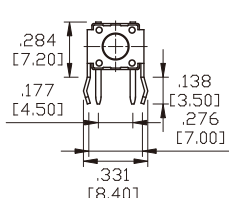
L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]
3	.276 [7.00]
5	.374 [9.50]



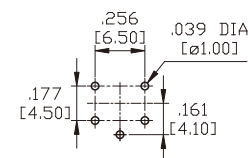
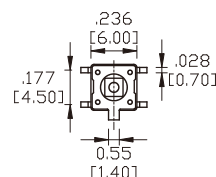
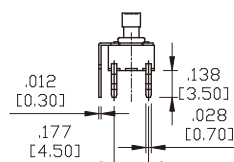
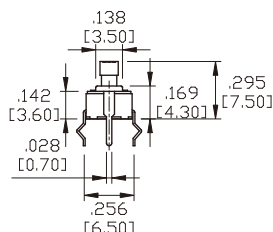
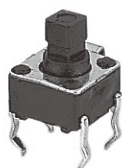
KRS-0614



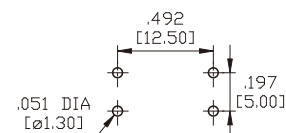
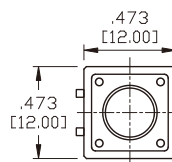
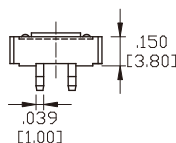
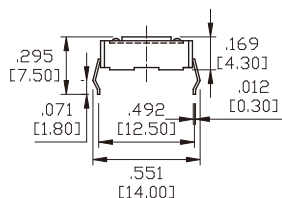
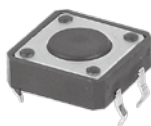
L	DIM. "A"
1	.124 [3.15]
2	.152 [3.85]
3	.230 [5.85]
5	.329 [8.35]
6	.467 [11.85]



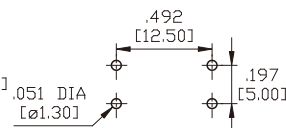
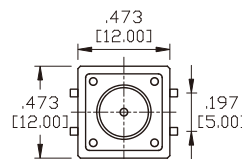
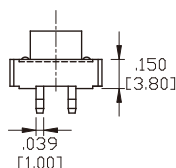
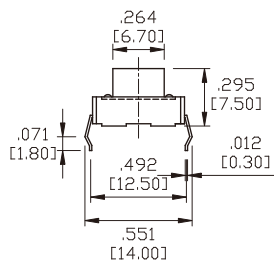
KRS-0615



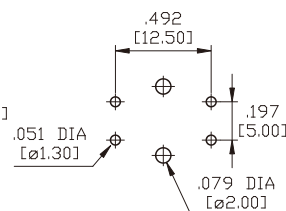
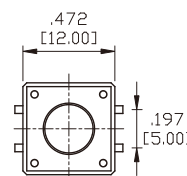
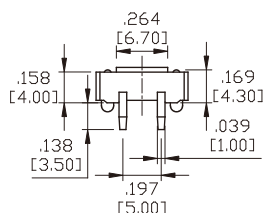
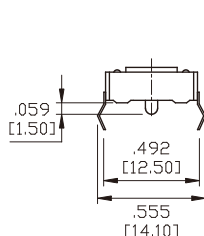
KRS-1213



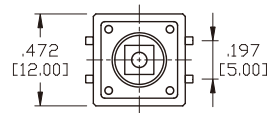
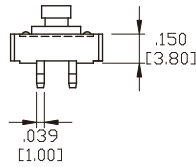
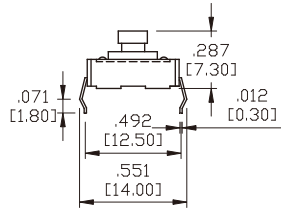
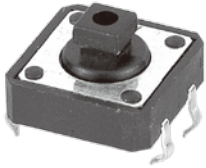
KRS-1223



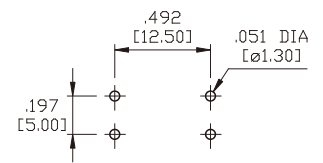
KRS-1243



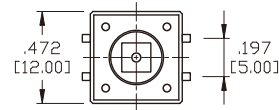
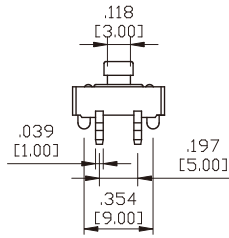
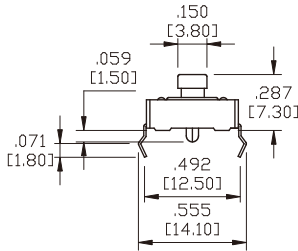
KRS-1263



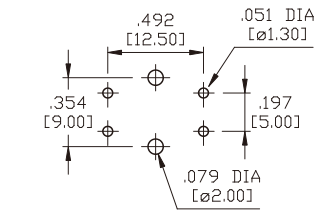
P.C.B LAND PATTERN



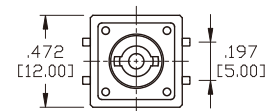
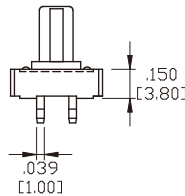
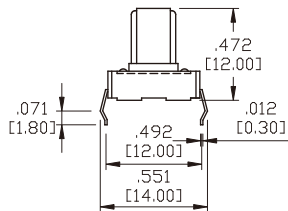
KRS-1273



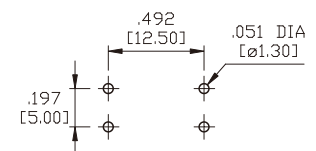
P.C.B LAND PATTERN



KRS-1283



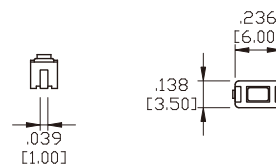
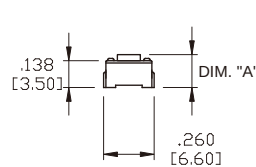
P.C.B LAND PATTERN



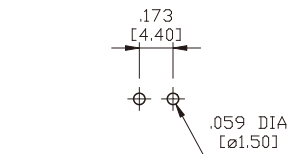
KRSM-3A



L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]



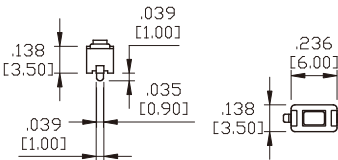
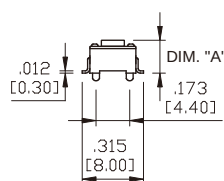
P.C.B LAND PATTERN



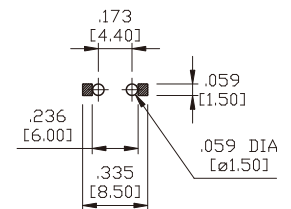
KRSM-3B



L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]



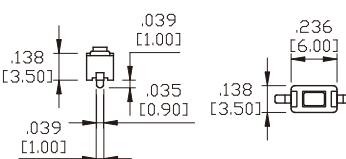
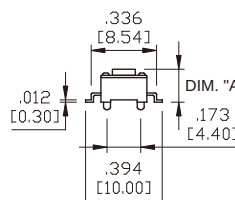
P.C.B LAND PATTERN



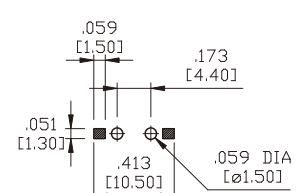
KRSM-3C



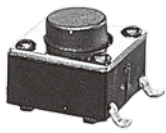
L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]



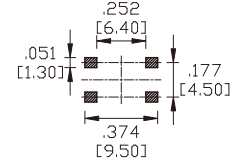
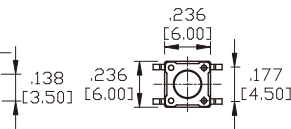
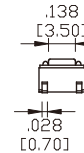
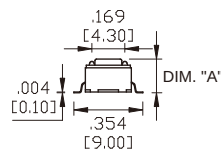
P.C.B LAND PATTERN



KRSM-6

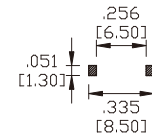
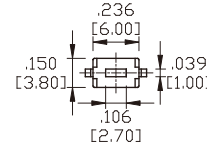
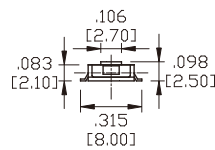
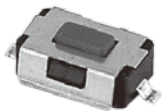


L	DIM. "A"
1	.169 [4.30]
2	.197 [5.00]
3	.276 [7.00]
4	.287 [7.30]
5	.374 [9.50]



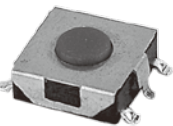
P.C.B LAND PATTERN

KRSM-13

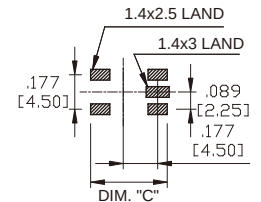
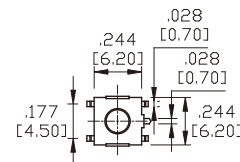
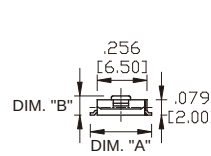


P.C.B LAND PATTERN

KRSM-16 □ □



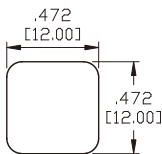
MODEL NO.	DIM."A"	DIM."B"	DIM."C"
KRSM-1611	.315 [8.00]	.098 [2.50]	.394 [10.00]
KRSM-1612	.315 [8.00]	.122 [3.10]	.394 [10.00]
KRSM-1621	.394 [10.00]	.098 [2.50]	.472 [12.00]
KRSM-1622	.394 [10.00]	.122 [3.10]	.472 [12.00]



P.C.B LAND PATTERN

CAP

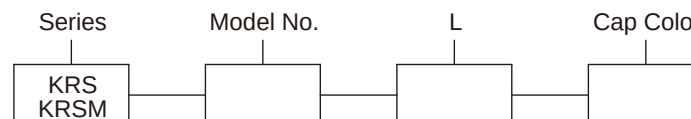
For KRS-1263 and KRS-1273 only



CAP COLORS

Color No.	Color	Color No.	Color
1	White	6	Green
2	Black	7	Blue
3	Red	8	Brown
4	Orange	9	Gray
5	Yellow		

HOW TO ORDER



* Cap color only required when cap is ordered.

Toggle

Rocker

Slide

Pushbutton

AV

Rotary

Tact

Touch Key

Miscellaneous

SPECIFICATIONS:

RATING: 12 VDC 50 mA.

OPERATING TEMPERATURE: -20°C +70°C.

CONTACT RESISTANCE: 100m-ohms (initial).

INSULATION RESISTANCE: 50M-ohms DC100V Min.

OUTPUT RESOLUTION:

10 pulse / 360°, each detent 36°±3°.

CENTER PUSH TRAVEL:

3SA: 1st=3.1±0.15mm, 2nd=2.9±0.15mm.

3SC: 3.35±0.1mm.

OPERATING FORCE (CENTER PUSH):

1st=100±50gf, 2nd=260±80gf,

rotary=80gf-cm±50gf-cm.

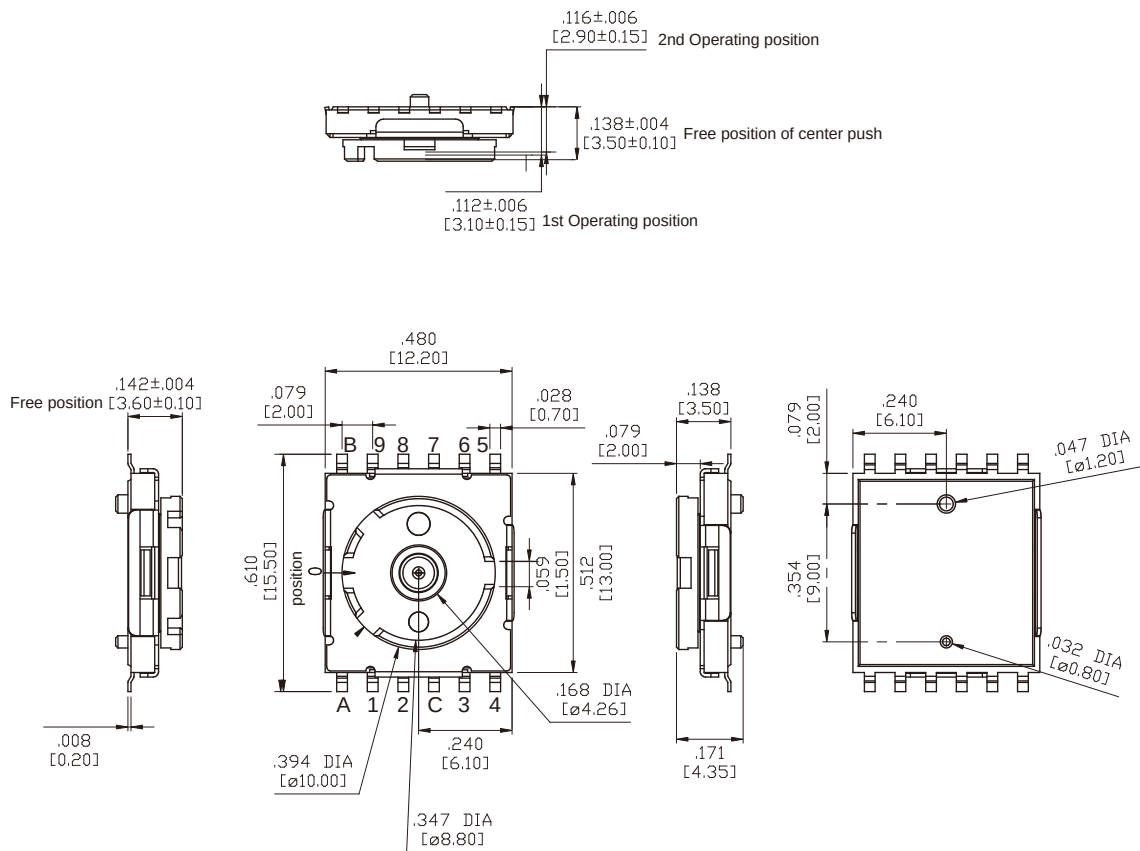
ELECTRICAL LIFE (CENTER PUSH):

center push:100,000 cycles Min.

rotary:50,000 cycles Min.

Specifications and Dimensions subject to change

3SA



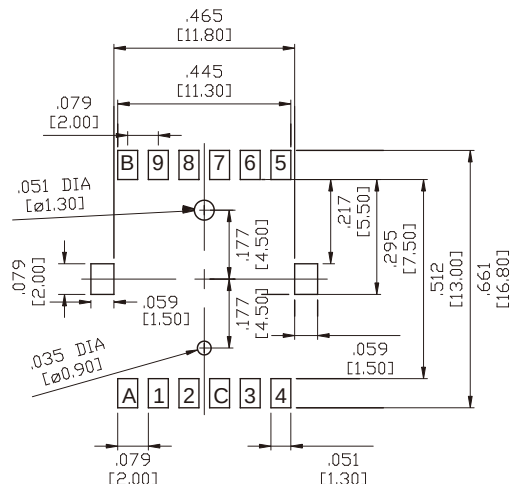
P.C.B MOUNTING

CODE: A (10 position)

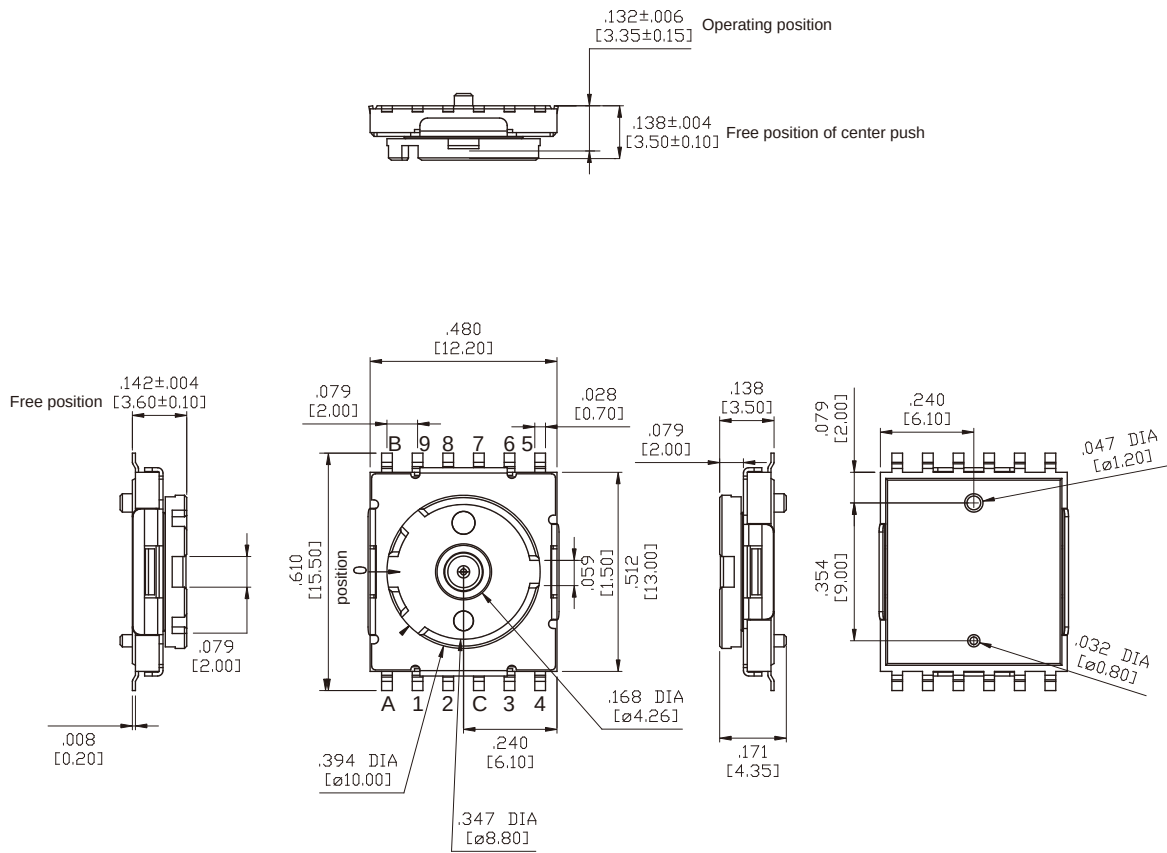
POSITION	0	1	2	3	4	5	6	7	8	9
TERMINAL										
C	●	●	●	●	●	●	●	●	●	●
1		●								
2			●							
3				●						
4					●					
5						●				
6							●			
7								●		
8									●	
9										●

The●marks shows the "ON" position.

CIRCUIT DIAGRAM OF CENTER PUSH



3SC

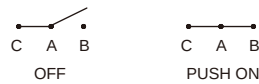


CODE: C (10 position)
CIRCUIT DIAGRAM OF ROTARY

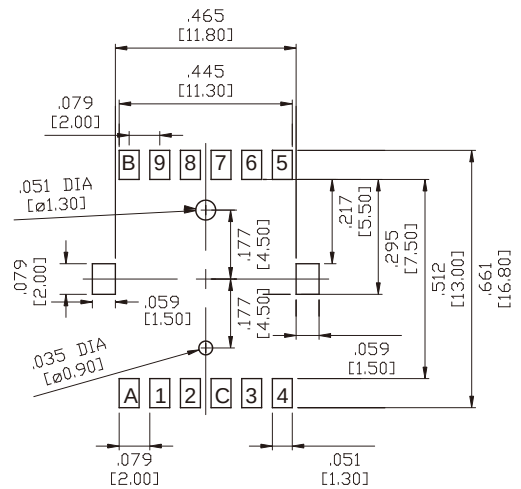
POSITION TERMINAL	0	1	2	3	4	5	6	7	8	9
C		●	●	●	●	●	●	●	●	●
1		●								
2			●							
3				●						
4					●					
5						●				
6							●			
7								●		
8									●	
9										●

The ● marks shows the "ON" position.

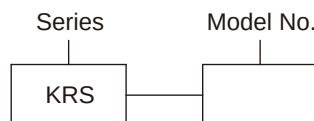
CIRCUIT DIAGRAM OF CENTER PUSH



P.C.B MOUNTING



HOW TO ORDER



SPECIFICATIONS:

CONTACT RATING: 50mA 12VDC.
 CONTACT RESISTANCE: 100m-ohms max.
 TRAVEL: 0.25±0.10mm.
 LIFE: 100,000 cycles min.
 OPERATING FORCE: 130, 160±30, 250±50gf.

MATERIALS:

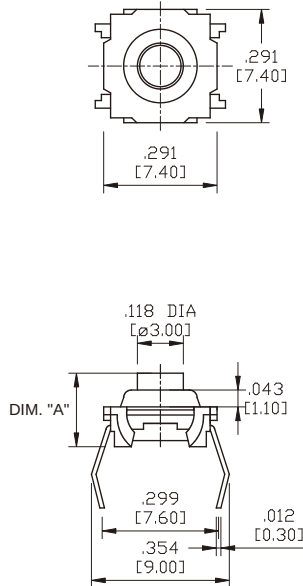
CASE & STEM: Nylon 66 G30%.
 COVER: 0.3t electrolytic tin plate (E.T).
 TERMINAL: 0.3t C2680R-EH.
 C/PLETAT: 0.06t AG-C5210R-EH.
 RUBBER: Silicon.

Specifications and Dimensions subject to change

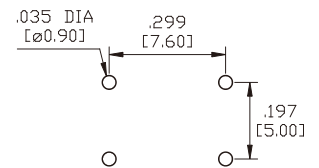
KRSS-0712



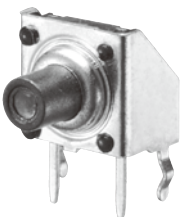
L	DIM. "A"
1	.185 [4.70]
2	.205 [5.20]
3	.272 [6.90]
4	.394 [10.00]



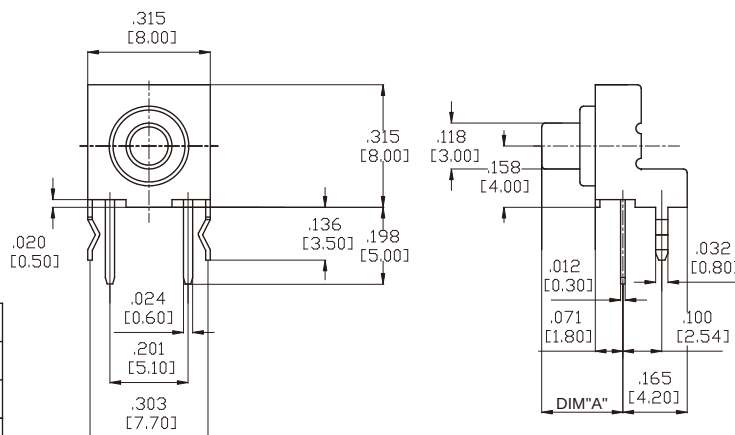
P.C.MOUNTING



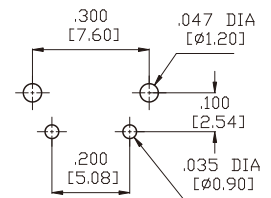
KRSS-0714



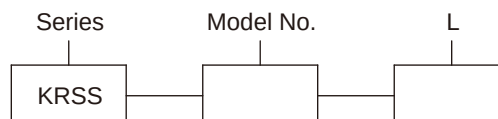
L	DIM. "A"
1	.138 [3.50]
2	.158 [4.00]
3	.225 [5.70]
4	.343 [8.70]



P.C.MOUNTING



HOW TO ORDER



SPECIFICATIONS:

CONTACT RATING: 50mA 12VDC.
CONTACT RESISTANCE: 30m-ohms max.
TRAVEL: 0.30±0.10mm (0712), 0.35±0.10mm (0714).
LIFE: 80,000 cycles min.
OPERATING FORCE: 160±30gf (0714), 250±30gf (0712 & 0714).

MATERIALS:

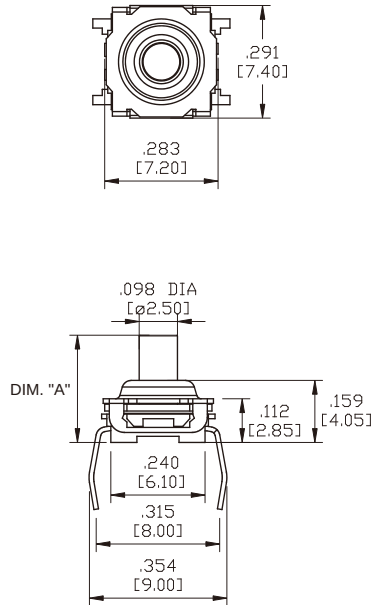
BASE & STEM: Nylon 66.
COVER: Steel or brass.
TERMINAL: Brass.
CONTACT: Silver copper or stainless steel.
O-RING: Silicon.

Specifications and Dimensions subject to change

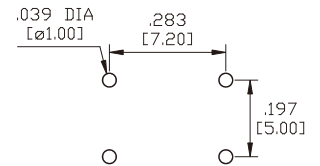
KRSA-0712



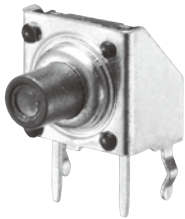
L	DIM. "A"
1	.197 [5.00]
2	.276 [7.00]
3	.335 [8.50]



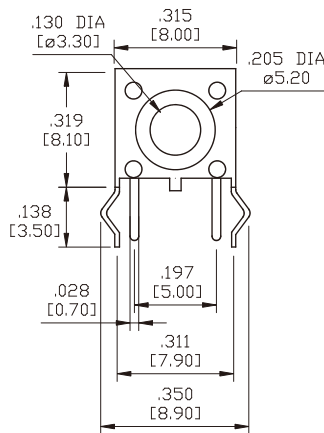
P.C.MOUNTING



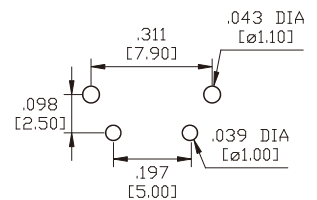
KRSA-0714



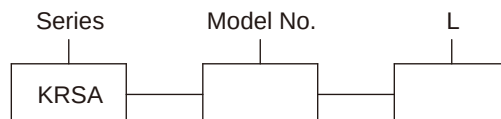
L	DIM. "A"
1	.152 [3.85]
2	.230 [5.85]
3	.309 [7.85]



P.C.MOUNTING



HOW TO ORDER



Toggle

Rocker

Slide

Pushbutton

AV

Rotary

Tact

Touch Key

Miscellaneous

SPECIFICATIONS:

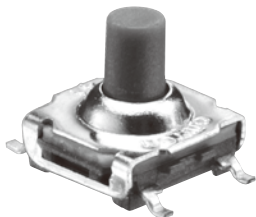
CONTACT RATING: 50mA 12VDC.
CONTACT RESISTANCE: 30m-ohms max.
TRAVEL: 0.30±0.10mm.
LIFE: 80,000 cycles min.
OPERATING FORCE: 250±30gf.

MATERIALS:

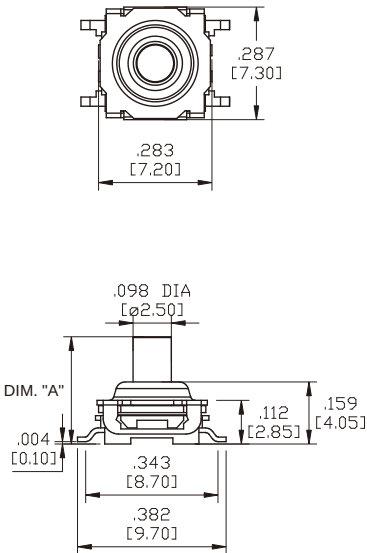
BASE & STEM: Nylon 66.
COVER: Brass.
TERMINAL: Brass.
CONTACT: Silver copper.
O-RING: Silicon.

Specifications and Dimensions subject to change

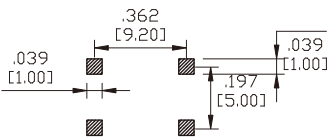
KRSAM-0712



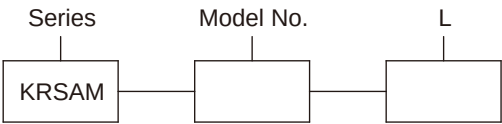
L	DIM. "A"
1	.197 [5.00]
2	.276 [7.00]
3	.335 [8.50]



P.C.MOUNTING



HOW TO ORDER



SPECIFICATIONS:

RATING: 12VDC 50mA.

OPERATING TEMPERATURE: -20°C +70°C.

CONTACT RESISTANCE: 200m-ohms (Initial).

INSULATION RESISTANCE: 100M-ohms MIN.

WITHSTANDING VOLTAGE: 1 minute at 250 VAC.

BOUNCE: 5ms MAX.

ELECTRICAL LIFE: 20,000 times.

OPERATING FORCE: 1st=1.0±0.4N / 2nd=2.9±0.8N.

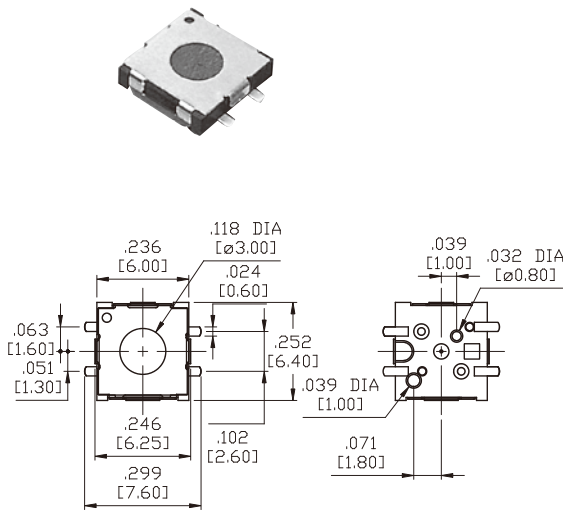
HEAT RESISTANCE:

Manual soldering 300°C for 3 sec MAX.

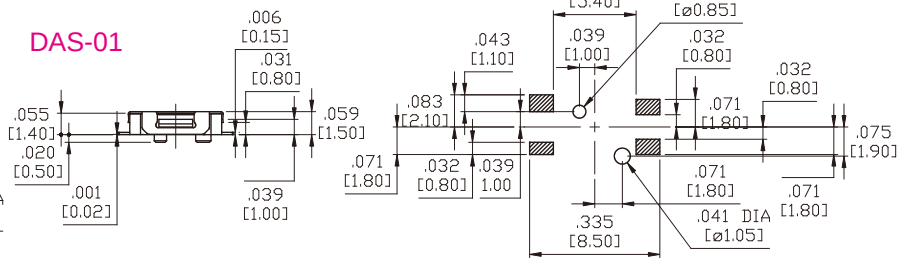
Reflow soldering 240°C for 20 sec MAX.

PACKING QUANTITY: 2,000 pcs/per reel.

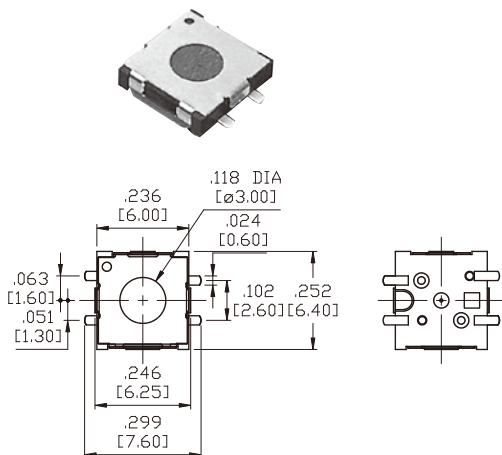
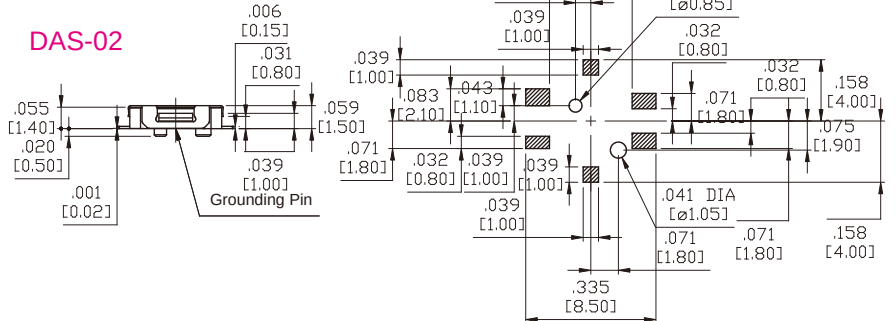
Specifications and Dimensions subject to change



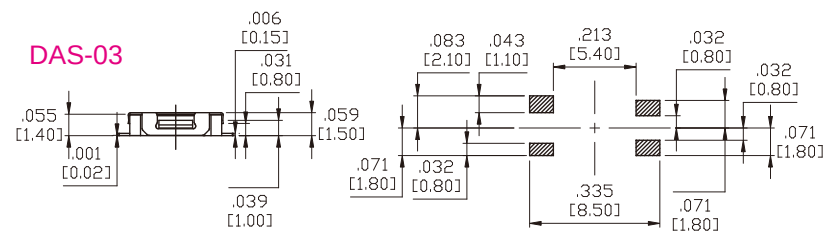
DAS-01



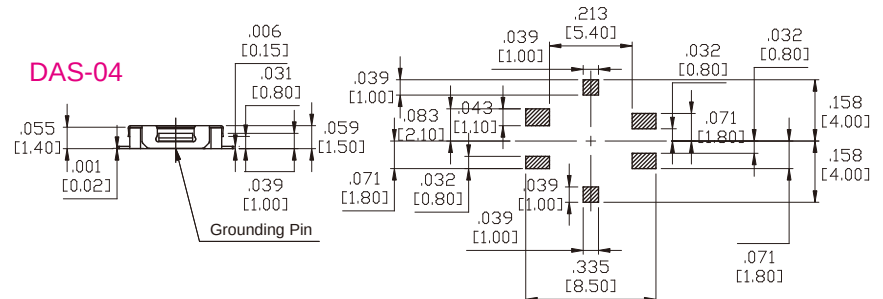
DAS-02



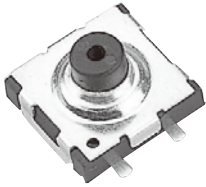
DAS-03



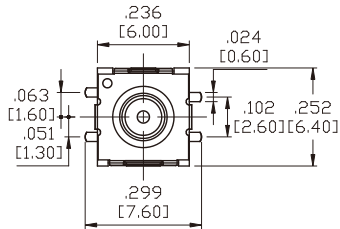
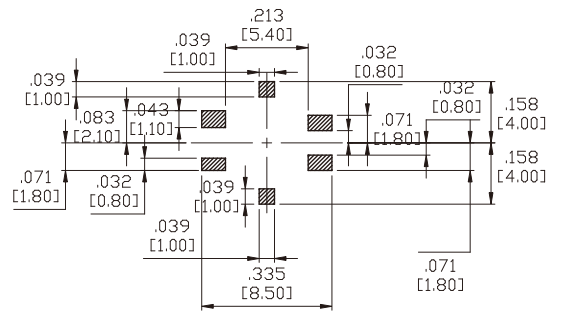
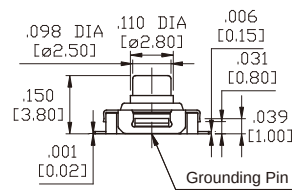
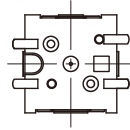
DAS-04



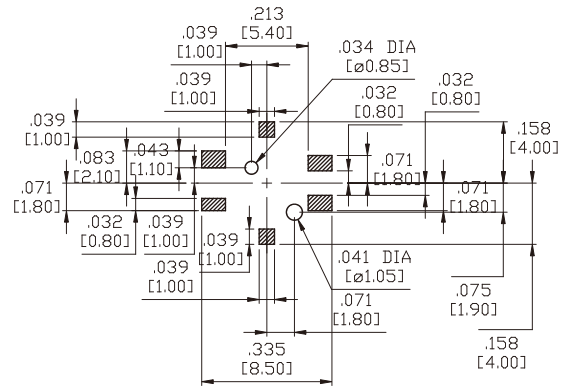
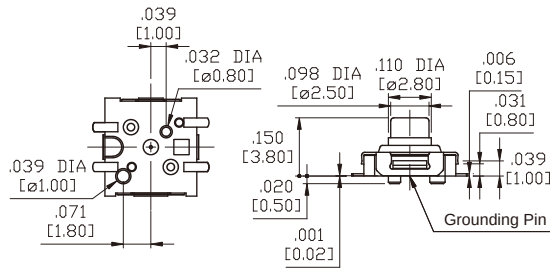
P.C.B MOUNTING



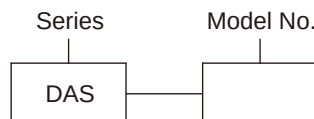
DAS-05

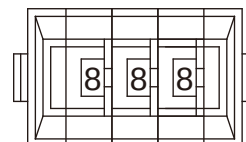
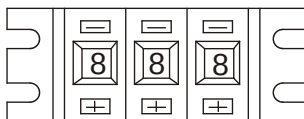
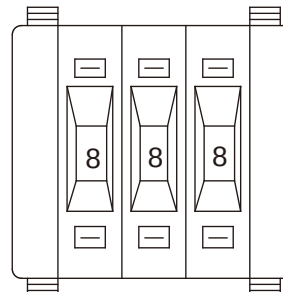
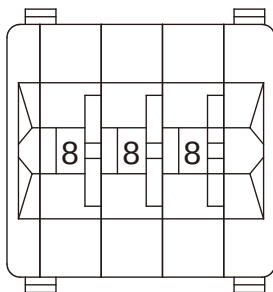


DAS-06



HOW TO ORDER





SPECIFICATIONS:

ELECTRICAL CAPACITY:

- a. Operating Voltage: 50VAC/28VDC maximum.
- b. Switching Current: 100mA maximum.
- c. Carrying Current: 1A maximum (500mA max. for small size series).

Contact Resistance: (Per Method 307 of MIL-STD-202)
200mΩ maximum.

INSULATION RESISTANCE: (Per Method 302 of Mil-STD-202).

- a. Between common terminal and any output: 10MΩ minimum.
- b. Between each output and non-current-carrying part: 1,000MΩ minimum.

DIELECTRIC STRENGTH: (Per Method 301 of MIL-STD-202).

- a. Between common terminal and any output: 800VAC 1 min.
- b. Between each output and non-current-carrying part: 1,000VAC 1 min.

OPERATING TEMPERATURE: -20°C to +65°C.

Life:

- a. Mechanical: 200,000 detent operations.
- b. Electrical: 100,000 detent operations.

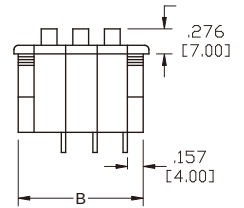
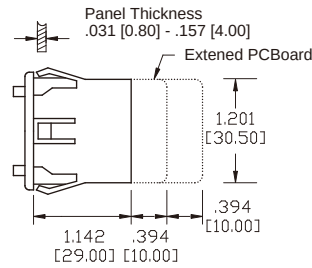
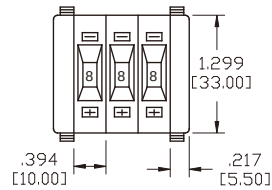
MATERIALS:

HOUSING, BLANKS END CAPS, WHEELS, PUSHKEY: Thermoplastic.

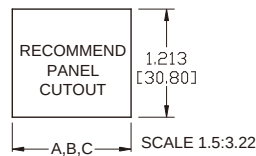
MOVING CONTACTS: Precious metal on phosphor bronze.

PRINTED CIRCUIT BOARDS: Hard gold plated over nickel plated on 0.79mm thickness epoxy laminate.

PF21



PANEL MOUNTING



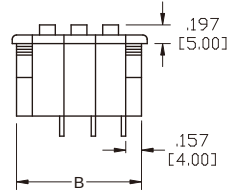
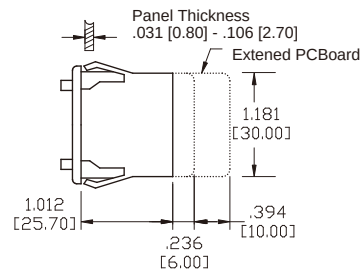
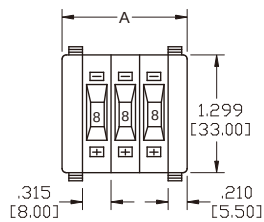
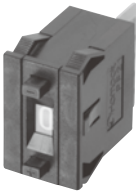
$$A = 10.00(.394) * N + 11.00(.433)$$

$$B = 10.00(.394) * N + 8.00(.315)$$

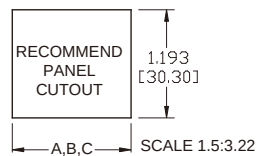
$$C = 10.00(.394) * N + 8.30(.327)$$

N = Number of Sections

PF31



PANEL MOUNTING



$$A = 8.00(.315) * N + 11.00(.433)$$

$$B = 8.00(.315) * N + 8.00(.315)$$

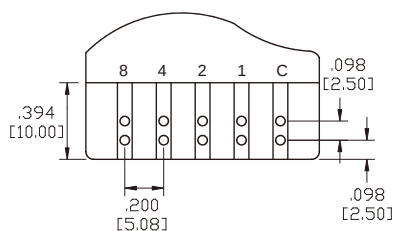
$$C = 8.00(.315) * N + 8.30(.327)$$

N = Number of Sections

TERMINATION OPTIONS

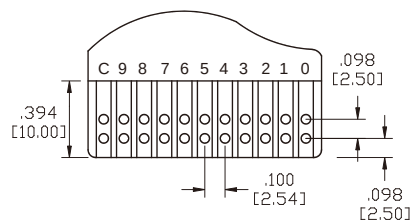
M1

BCD



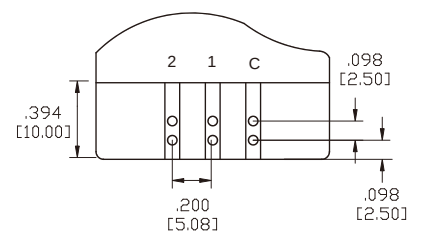
M2

DECIMAL

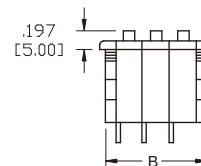
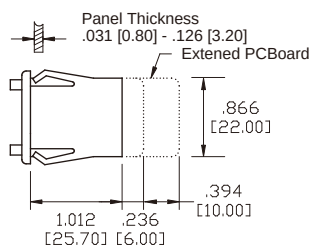
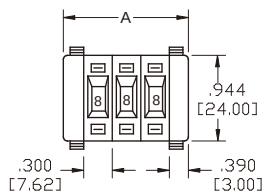


M3

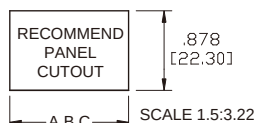
REPEATING



PF44



PANEL MOUNTING



$$A = 7.62(.300) * N + 6.00(.236)$$

$$B = 7.62(.300) * N + 3.00(.118)$$

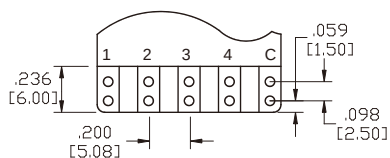
$$C = 7.62(.300) * N + 3.30(.130)$$

N = Number of Sections

TERMINATION OPTIONS

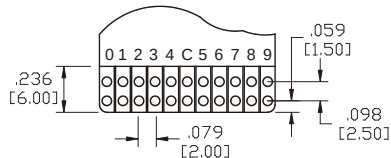
M1

BCD



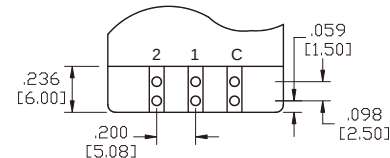
M2

DECIMAL

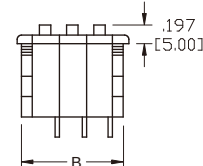
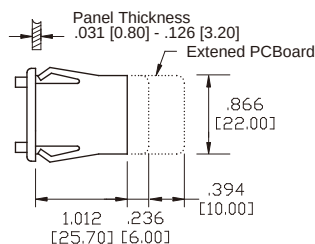
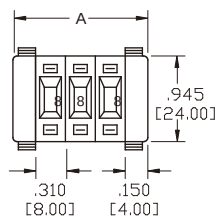


M3

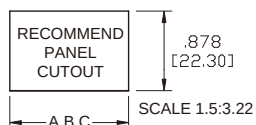
REPEATING



PF49



PANEL MOUNTING



$$A = 8.00(.315) * N + 11.00(.433)$$

$$B = 8.00(.315) * N + 8.00(.315)$$

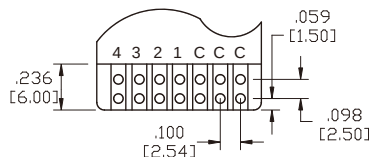
$$C = 8.00(.315) * N + 8.30(.327)$$

N = Number of Sections

TERMINATION OPTIONS

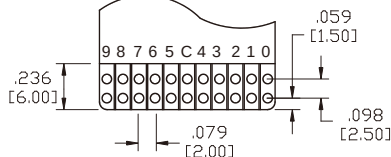
M1

BCD



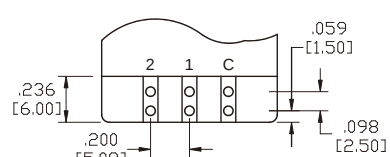
M2

DECIMAL

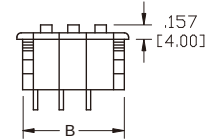
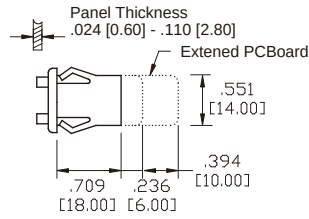
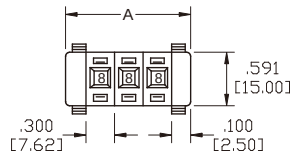


M3

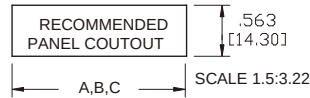
REPEATING



PF52



PANEL MOUNTING



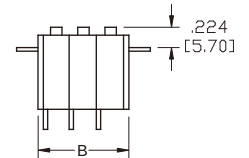
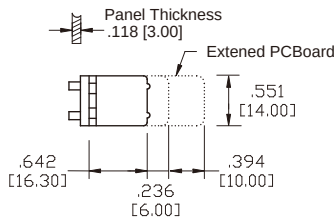
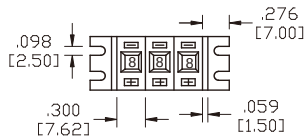
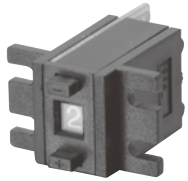
$$A = 7.62(.300) * N + 5.00(.197)$$

$$B = 7.62(.300) * N + 3.00(.118)$$

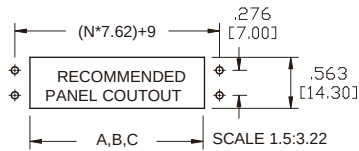
$$C = 7.62(.300) * N + 3.30(.130)$$

N = Number of Sections

PR52



PANEL MOUNTING



$$A = 7.62(.300) * N + 15.00(.591)$$

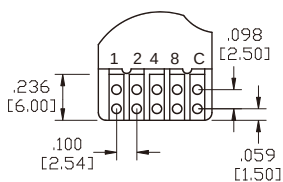
$$B = 7.62(.300) * N + 3.00(.118)$$

$$C = 7.62(.300) * N + 3.30(.130)$$

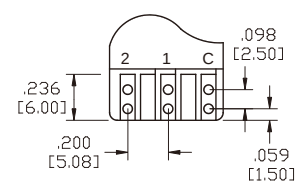
N = Number of Sections

TERMINATION OPTIONS

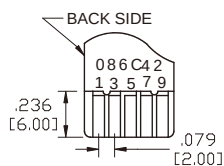
M1 BCD



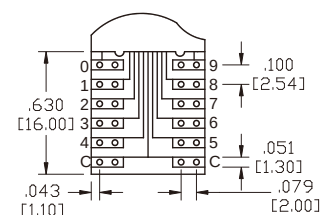
M2 REPEATING



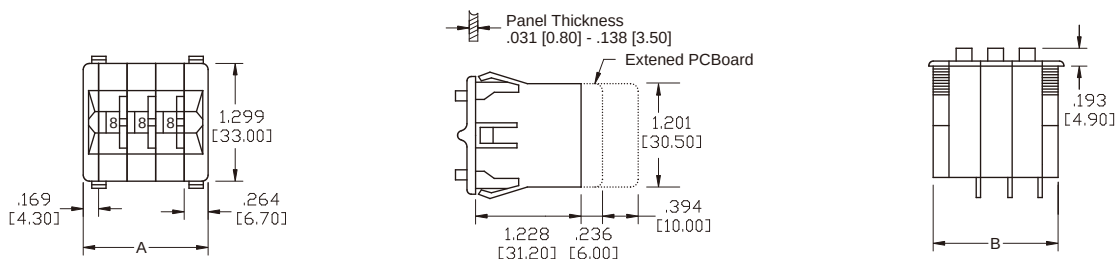
M3 DOUBLE SIDED PCB DECIMAL



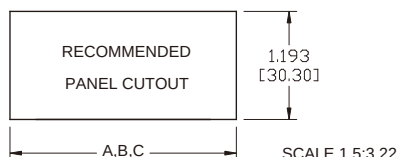
M4 DECIMAL



TF31



PANEL MOUNTING



$$A = 8.00(.315) * N + 11.00(.433)$$

$$B = 8.00(.315) * N + 8.00(.315)$$

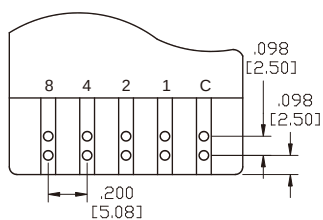
$$C = 8.00(.315) * N + 8.30(.327)$$

N = Number of Sections

TERMINATION OPTIONS

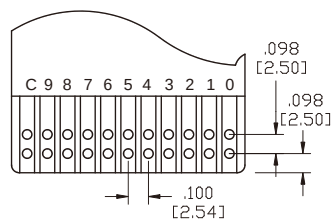
M1

BCD



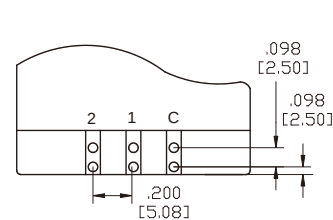
M2

DECIMAL

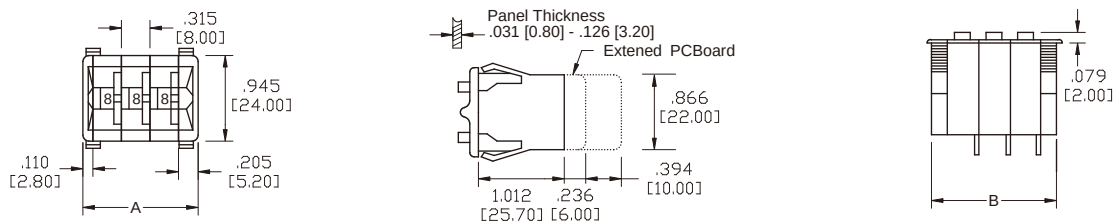


M3

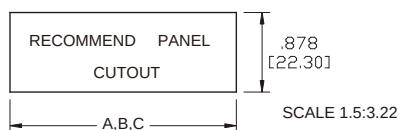
REPEATING



TF41



PANEL MOUNTING



$$A = 8.00(.315) * N + 8.00(.315)$$

$$B = 8.00(.315) * N + 6.00(.236)$$

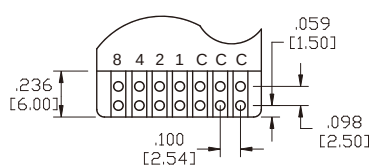
$$C = 8.00(.315) * N + 6.30(.248)$$

N = Number of Sections

TERMINATION OPTIONS

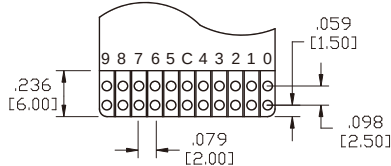
M1

BCD



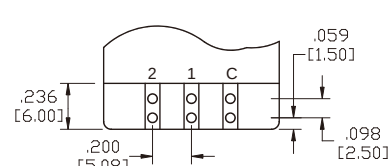
M2

DECIMAL

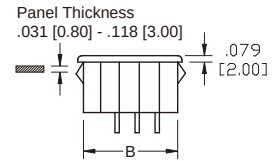
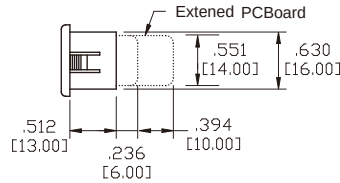
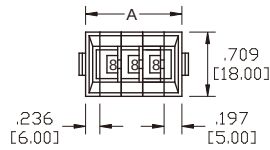


M3

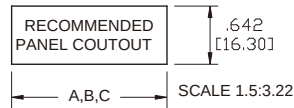
REPEATING



TF51



PANEL MOUNTING



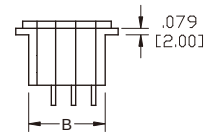
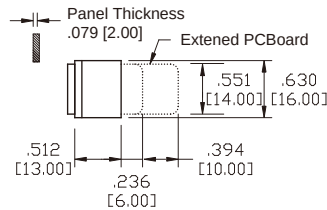
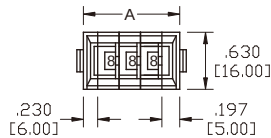
$$A = 6.00(.236) * N + 10.00 \text{ or } 8.00(.394 \text{ or } .315)$$

$$B = 6.00(.236) * N + 8.00 \text{ or } 6.00(.315 \text{ or } .236)$$

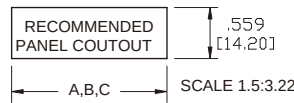
$$C = 6.00(.236) * N + 8.30 \text{ or } 6.30(.327 \text{ or } .248)$$

N = Number of Sections

TR51



PANEL MOUNTING



$$A = 6.00(.236) * N + 8.00(.315)$$

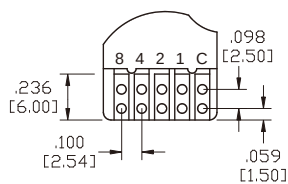
$$B = 6.00(.236) * N + 6.00(.236)$$

$$C = 6.00(.236) * N + 6.30(.248)$$

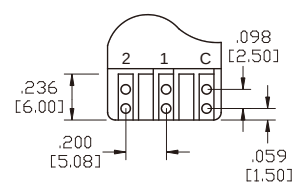
N = Number of Sections

TERMINATION OPTIONS

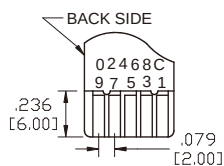
M1 BCD



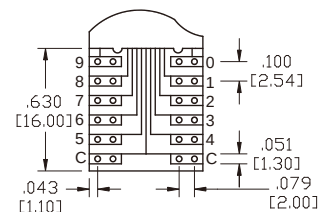
M2 REPEATING



M3 DOUBLE SIDED PCB DECIMAL

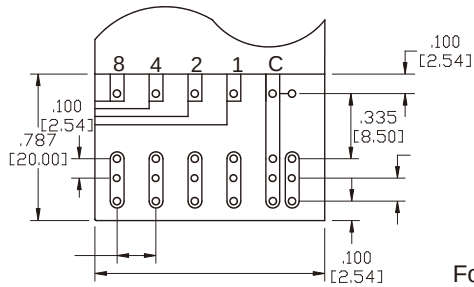


M4 DECIMAL



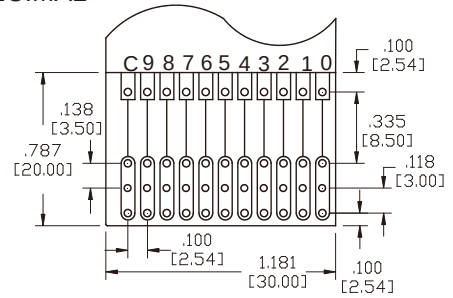
TERMINATION OPTIONS

M4 BCD

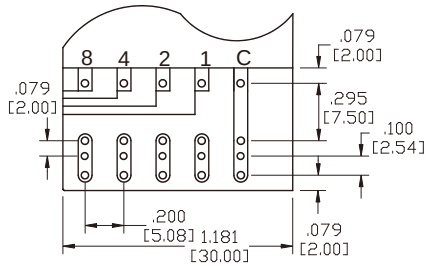


For PF21 Only

M5 DECIMAL

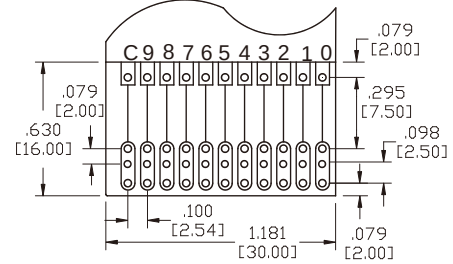


M4 BCD

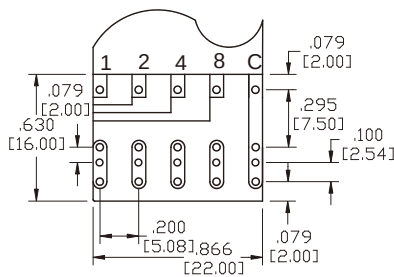


For PF31 TF31 Only

M5 DECIMAL

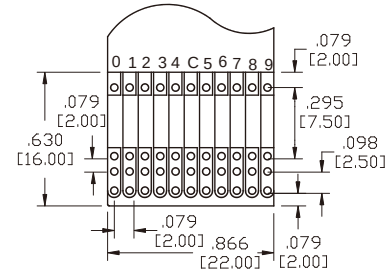


M4 BCD

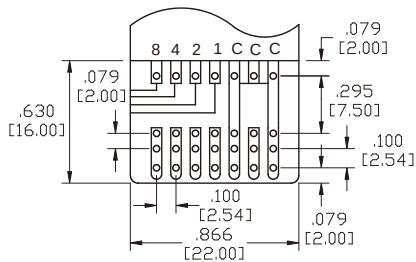


For PF44 Only

M5 DECIMAL

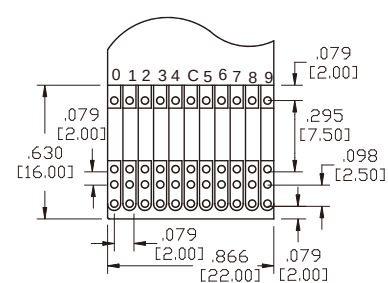


M4 BCD

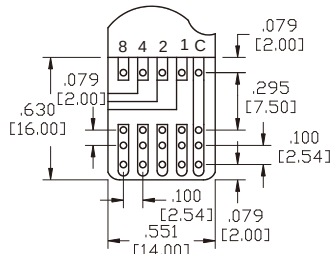


For PF49 TF41 Only

M5 DECIMAL

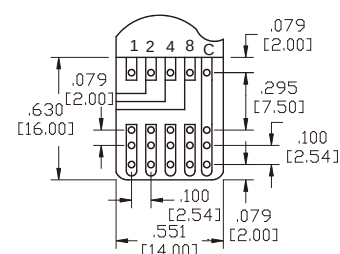


M5 BCD



For TR51 TF51 Only

M5 BCD



For PF52 PR52 Only

Toggle

Rocker

Slide

Pushbutton

AV

Rotary

Tact

Touch Key

Miscellaneous

FUNCTION CODES

10

BCD-7 POSITION

WHEEL	C connected to terminals			
	1	2	4	C
0				●
1	●			●
2		●		●
3	●			●
4			●	●
5	●		●	●
6		●	●	●

11

BCD-8 POSITION

WHEEL	C connected to terminals			
	1	2	4	C
0				●
1	●			●
2		●		●
3	●	●		●
4			●	●
5	●		●	●
6		●	●	●
7	●	●	●	●

12

BCD-10 POSITION

WHEEL	C connected to terminals				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●

13

BCD-16 POSITION

WHEEL	C connected to terminals				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
10		●			●
11	●				●
12			●		●
13	●		●		●
14		●	●		●
15	●	●	●	●	●

14

BCD-16 POSITION

WHEEL	C connected to terminals				
	1	2	4	8	C
0					●
1	●				●
2		●			●
3	●	●			●
4			●		●
5	●		●		●
6		●	●		●
7	●	●	●		●
8				●	●
9	●			●	●
A		●			●
B	●				●
C			●		●
D	●		●		●
E		●	●		●
F	●	●	●	●	●

22

DECIMAL-10 POSITION

WHEEL	C connected to terminals									
	0	1	2	3	4	5	6	7	8	9
0	●									●
1		●								●
2			●							●
3				●						●
4					●					●
5						●				●
6							●			●
7								●		●
8									●	●
9										●

31

BCD-10-COMPLEMENT POS.

WHEEL	C connected to terminals				
	1	2	4	8	C
0	●	●	●	●	●
1		●	●	●	●
2	●		●	●	●
3		●		●	●
4	●	●		●	●
5		●		●	●
6	●			●	●
7				●	●
8	●	●	●		●
9		●	●		●

51

+/- REPEATING

WHEEL	C connected to terminals		
	1	2	C
+	●		●
-		●	●
+	●		●
-		●	●
+	●		●
-		●	●
+	●		●
-		●	●
+	●		●
-		●	●

52

0/1 REPEATING

WHEEL	C connected to terminals		
	1	2	C
0	●		●
1		●	●
0	●		●
1		●	●
0	●		●
1		●	●
0	●		●
1		●	●
0	●		●
1		●	●

53

0/5 REPEATING

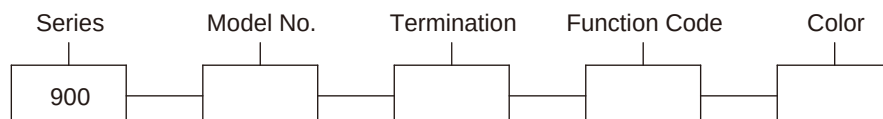
WHEEL	C connected to terminals		
	1	2	C
0	●		●
5		●	●
0	●		●
5		●	●
0	●		●
5		●	●
0	●		●
5		●	●
0	●		●
5		●	●

COLOR OPTIONS

Colors Parts	No.									
	1	2	3	4	5	6	7	8	9	0
Housing	B	B	B	G	G	G	I	I	I	
Wheel	B	B	R	B	B	R	B	B	R	
Character	W	W	W	W	W	W	W	W	W	
Push key	B	I	B	B	G	B	I	B	I	

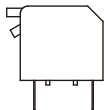
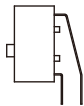
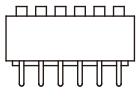
B: Black
G: Gray
I: Ivory
R: Red
W: White

HOW TO ORDER



SPECIFICATIONS:

NON-SWITCHING RATING: 100mA, 50VDC.
SWITCHING RATING: 25mA, 24VDC.
CONTACT RESISTANCE: 50mΩ max. initial.
ELECTRICAL LIFE: 2,000 operations.
INSULATION RESISTANCE: 500VDC 1minute±1sec. 100MΩ min.
DIELECTRIC STRENGTH: 500VAC for 1minute.
OPERATING TEMPERATURE: -20°C to +70°C
SOLDERING TEMPERATURE: 260°C for 5±1sec.

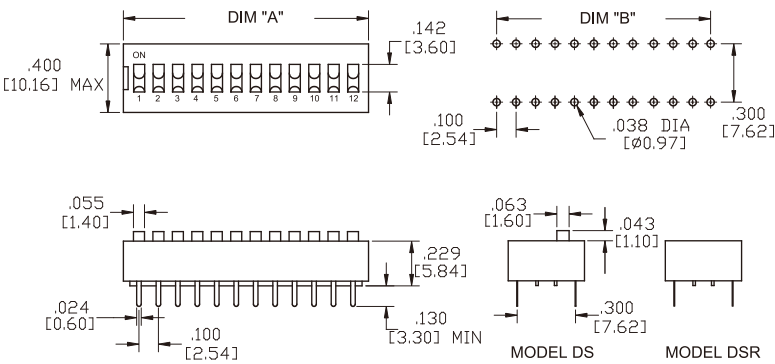
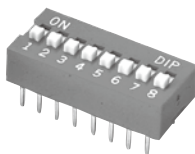


MATERIALS:

COVER: PBT, UL 94V-0, red standard.
ACTUATOR: PBT, UL 94V-0, white standard.
TERMINAL: Phosphor bronze, gold plated.
CONTACT: Phosphor bronze, gold plated.
BASE: PBT, UL 94V-0, black standard.
TAPE: Blended silicone and rubber.

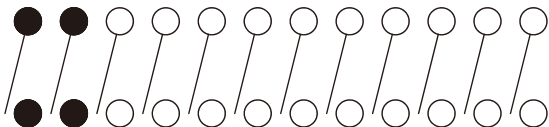
Specifications and Dimensions subject to change

DS(R)

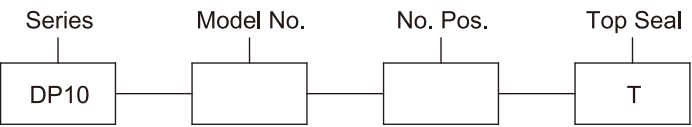


MODEL-POS. NO.	DIM "A"	DIM "B"
DS(R)-02	.260 [6.60]	.100 [2.54]
DS(R)-03	.360 [9.14]	.200 [5.08]
DS(R)-04	.460 [11.68]	.300 [7.62]
DS(R)-05	.560 [14.22]	.400 [10.16]
DS(R)-06	.660 [16.76]	.500 [12.70]
DS(R)-07	.760 [19.30]	.600 [15.24]
DS(R)-08	.860 [21.84]	.700 [17.78]
DS(R)-09	.960 [24.38]	.800 [20.32]
DS(R)-10	1.060 [26.92]	.900 [22.86]
DS(R)-12	1.260 [32.00]	1.100 [27.94]

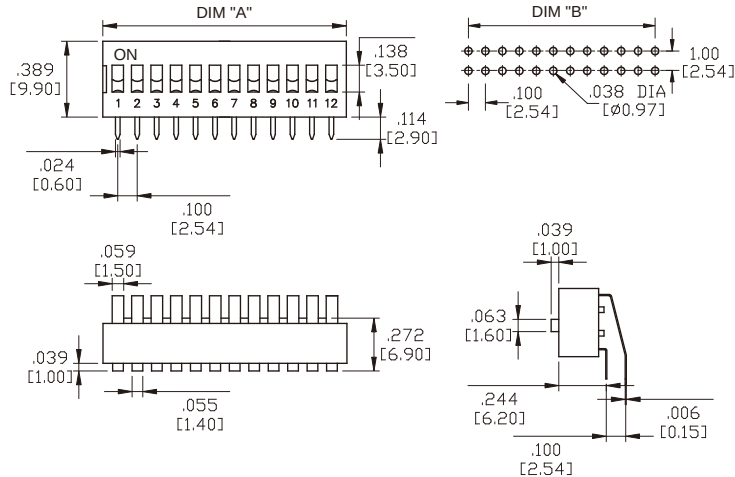
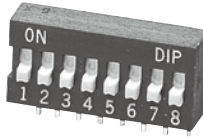
SCHEMATIC



HOW TO ORDER

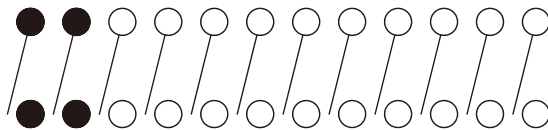


DA

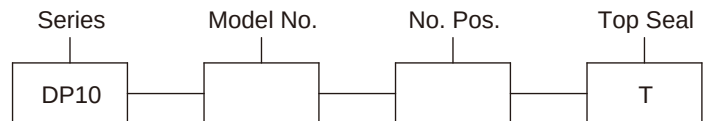


MODEL-POS. NO.	DIM "A"	DIM "B"
DA-02	.254 [6.44]	.100 [2.54]
DA-03	.354 [8.98]	.200 [5.08]
DA-04	.454 [11.52]	.300 [7.62]
DA-05	.554 [14.06]	.400 [10.16]
DA-06	.654 [16.60]	.500 [12.70]
DA-07	.754 [19.14]	.600 [15.24]
DA-08	.854 [21.66]	.700 [17.78]
DA-09	.954 [24.22]	.800 [20.32]
DA-10	1.054 [26.76]	.900 [22.86]
DA-12	1.254 [31.84]	1.100 [27.94]

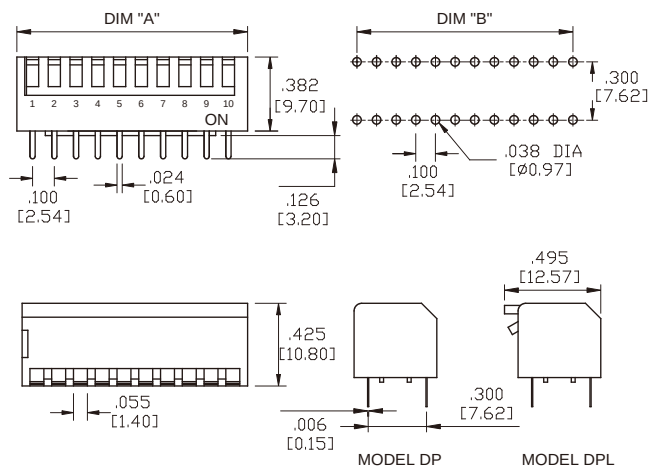
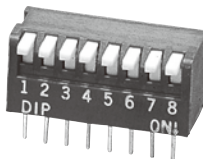
SCHEMATIC



HOW TO ORDER

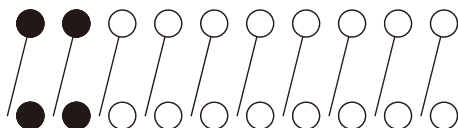


DP(L)

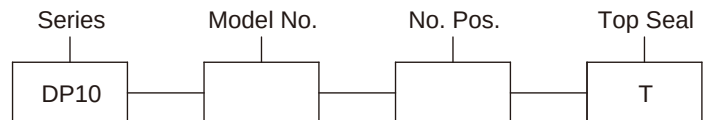


MODEL-POS. NO.	DIM "A"	DIM "B"
DP(L)-02	.261 [6.64]	.100 [2.54]
DP(L)-03	.361 [9.18]	.200 [5.08]
DP(L)-04	.461 [11.72]	.300 [7.62]
DP(L)-05	.561 [14.26]	.400 [10.16]
DP(L)-06	.661 [16.80]	.500 [12.70]
DP(L)-07	.761 [19.34]	.600 [15.24]
DP(L)-08	.861 [21.88]	.700 [17.78]
DP(L)-09	.961 [24.42]	.800 [20.32]
DP(L)-10	1.061 [26.96]	.900 [22.86]
DP(L)-12	1.261 [32.04]	1.100 [27.94]

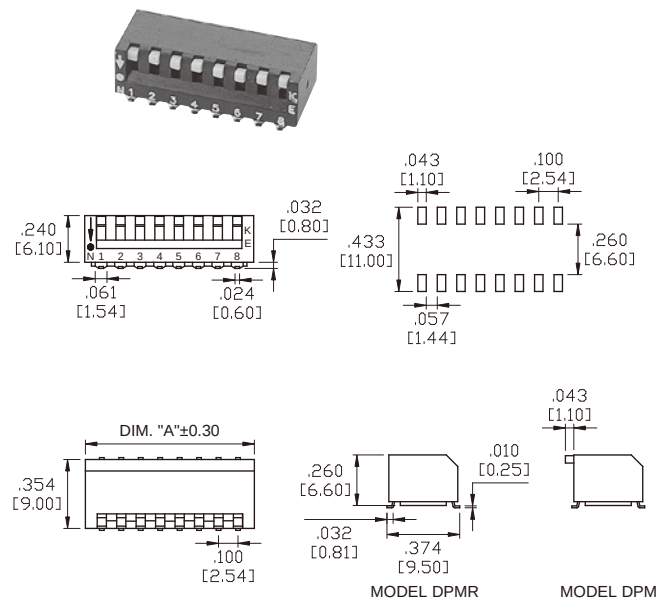
SCHEMATIC



HOW TO ORDER

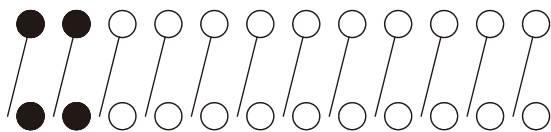


DPM(R)



MODEL-POS. NO.	DIM "A"	DIM "B"
DPM(R)-02	.255 [6.48]	.100 [2.54]
DPM(R)-03	.355 [9.02]	.200 [5.08]
DPM(R)-04	.455 [11.56]	.300 [7.62]
DPM(R)-05	.555 [14.10]	.400 [10.16]
DPM(R)-06	.655 [16.64]	.500 [12.70]
DPM(R)-07	.755 [19.18]	.600 [15.24]
DPM(R)-08	.855 [21.72]	.700 [17.78]
DPM(R)-09	.955 [24.26]	.800 [20.32]
DPM(R)-10	1.055 [26.80]	.900 [22.86]
DPM(R)-12	1.255 [31.88]	1.100 [27.94]

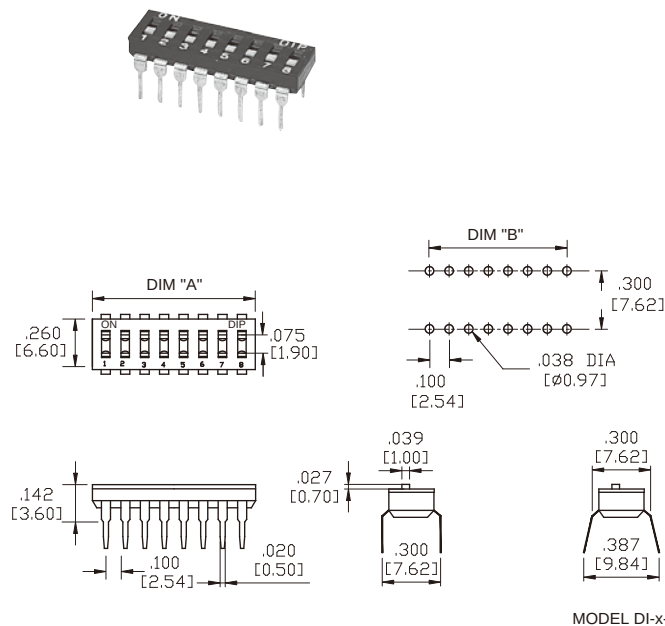
SCHEMATIC



HOW TO ORDER

Series Model No. No. Pos.

DI(R)



MODEL-POS. NO.	DIM "A"	DIM "B"
DI(R)-01(H)(S)	.137 [3.48]	NONE
DI(R)-02(H)(S)	.237 [6.02]	.100 [2.54]
DI(R)-03(H)(S)	.337 [8.56]	.200 [5.08]
DI(R)-04(H)(S)	.437 [11.10]	.300 [7.62]
DI(R)-05(H)(S)	.537 [13.64]	.400 [10.16]
DI(R)-06(H)(S)	.637 [16.18]	.500 [12.70]
DI(R)-07(H)(S)	.737 [18.72]	.600 [15.24]
DI(R)-08(H)(S)	.837 [21.26]	.700 [17.78]
DI(R)-09(H)(S)	.937 [23.80]	.800 [20.32]
DI(R)-10(H)(S)	1.037 [26.34]	.900 [22.86]
DI(R)-12(H)(S)	1.237 [31.42]	1.100 [27.94]



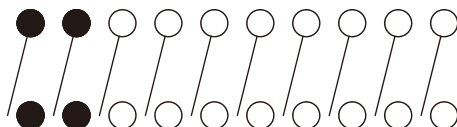
MODEL DI-x-S



MODEL DIR-x-H

MODEL DIR-x-S

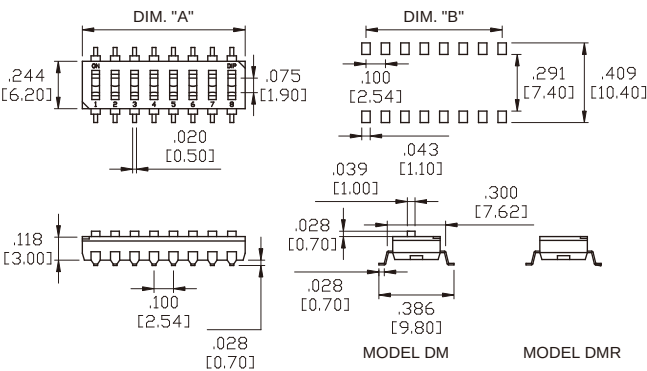
SCHEMATIC



HOW TO ORDER

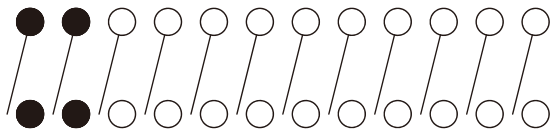
Series Model No. No. Pos. Top Seal

DM(R)

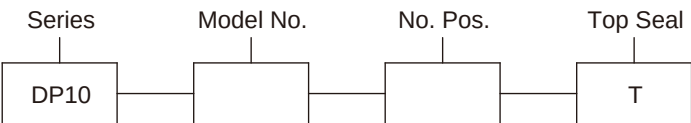


MODEL-POS. NO.	DIM "A"	DIM "B"
DM(R)-01	.137 [3.48]	NONE
DM(R)-02	.237 [6.02]	.100 [2.54]
DM(R)-03	.337 [8.56]	.200 [5.08]
DM(R)-04	.437 [11.10]	.300 [7.62]
DM(R)-05	.537 [13.64]	.400 [10.16]
DM(R)-06	.637 [16.18]	.500 [12.70]
DM(R)-07	.737 [18.72]	.600 [15.24]
DM(R)-08	.837 [21.26]	.700 [17.78]
DM(R)-09	.937 [23.80]	.800 [20.32]
DM(R)-10	1.037 [26.34]	.900 [22.86]
DM(R)-12	1.237 [31.42]	1.100 [27.94]

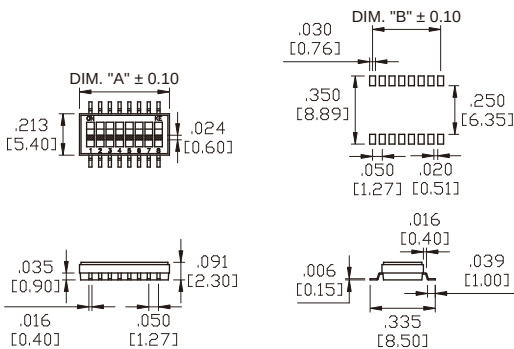
SCHEMATIC



HOW TO ORDER

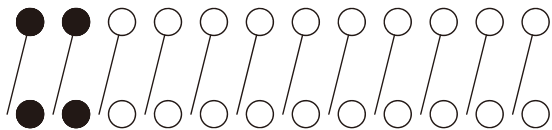


DH

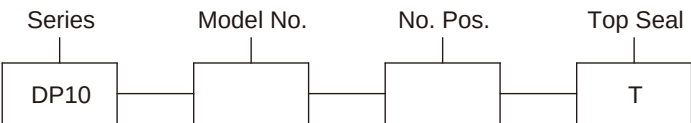


MODEL-POS. NO.	DIM "A"	DIM "B"
DH-02	.162 [4.12]	.050 [1.27]
DH-04	.262 [6.66]	.150 [3.81]
DH-06	.362 [9.20]	.250 [6.35]
DH-08	.462 [11.74]	.350 [8.89]
DH-10	.562 [14.28]	.450 [11.43]

SCHEMATIC

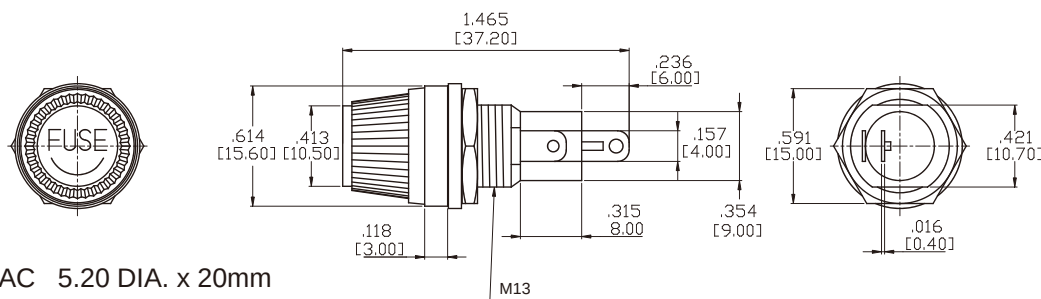


HOW TO ORDER



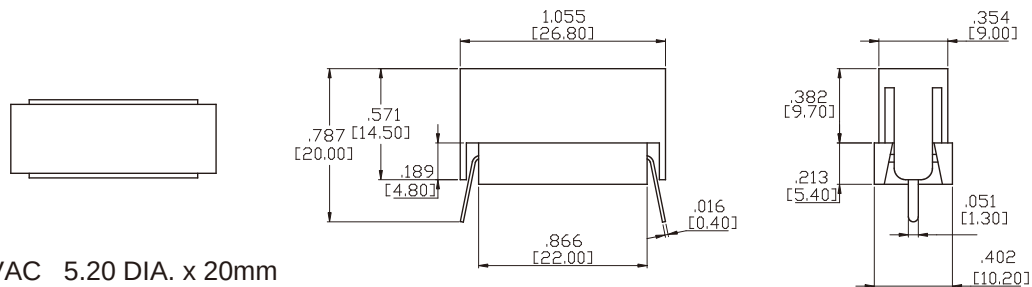
R22-0111

10A 250VAC 5.20 DIA. x 20mm



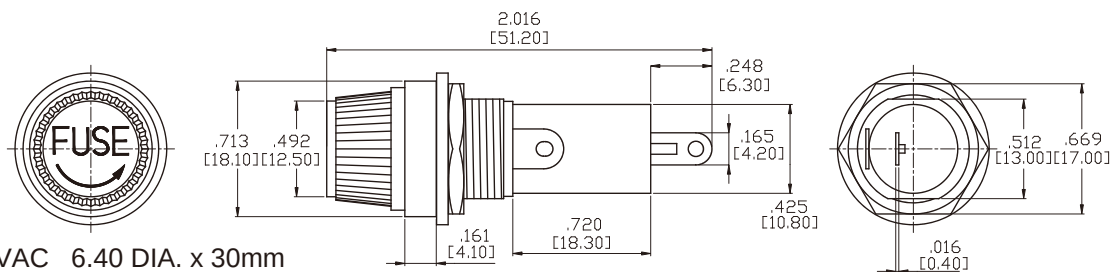
R22-0112

6A 250VAC 5.20 DIA. x 20mm



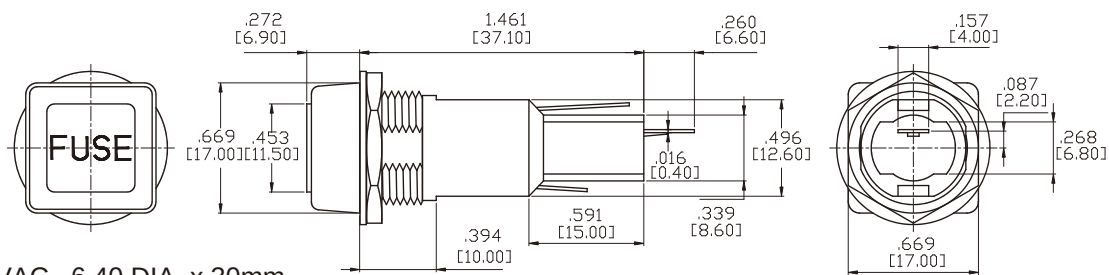
R22-0113

10A 250VAC 6.40 DIA. x 30mm



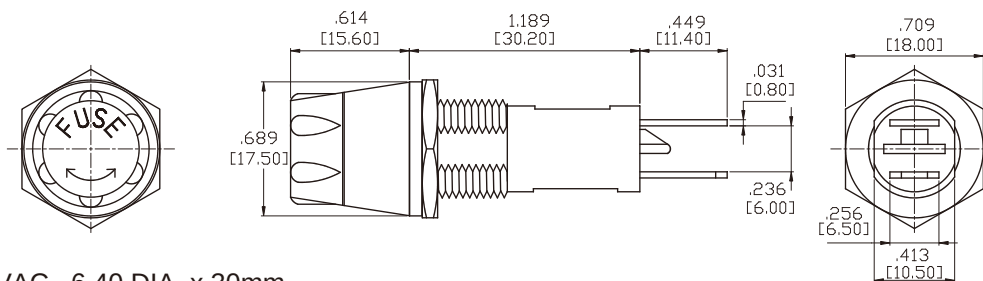
R22-0114

10A 250VAC 6.40 DIA. x 30mm



R22-0115

10A 250VAC 6.40 DIA. x 30mm

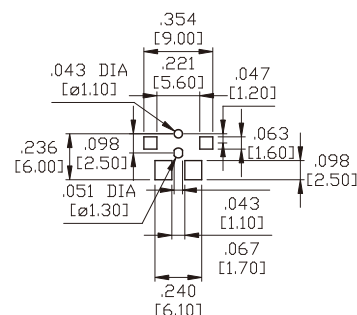
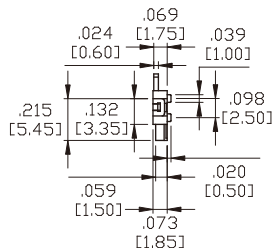
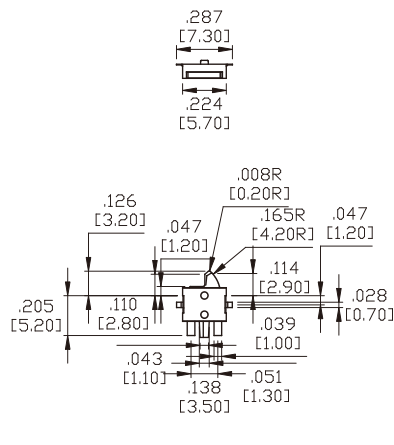


Reflow soldering 250°C 20 sec max.

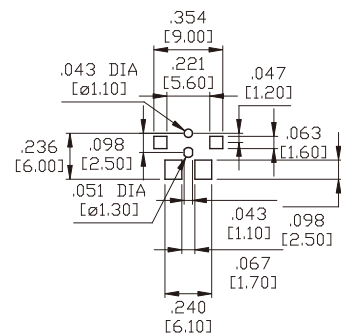
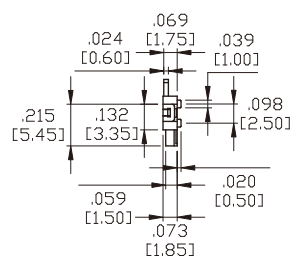
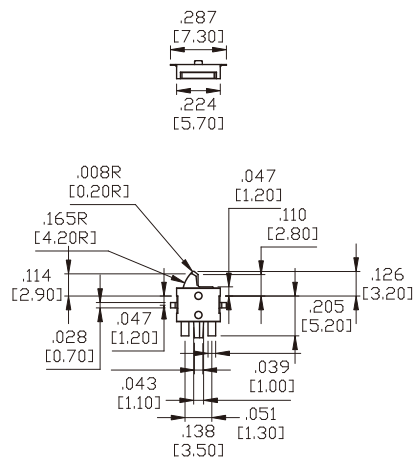
OPERATING LIFE(WITH LOAD): 100,000 cycles.

Specifications and Dimensions subject to change

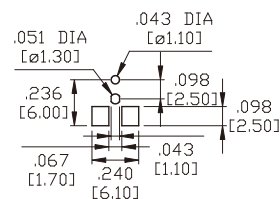
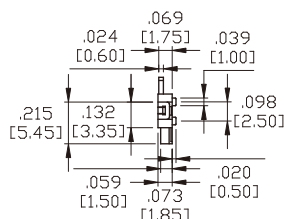
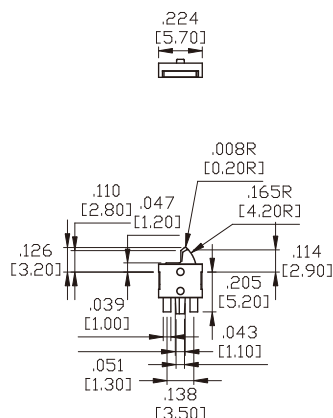
REFLOW PATTERN



REFLOW PATTERN

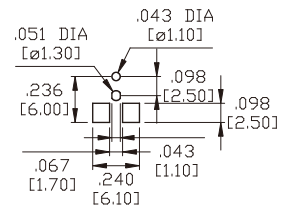
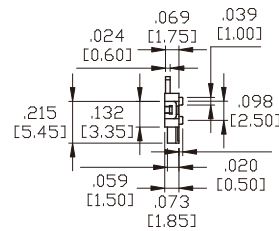
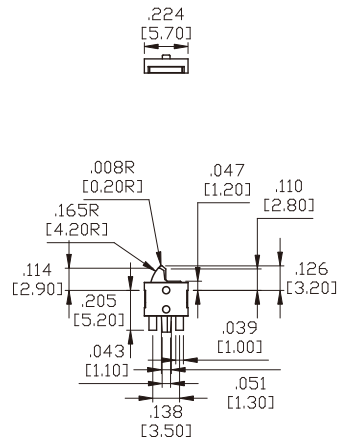


REFLOW PATTERN

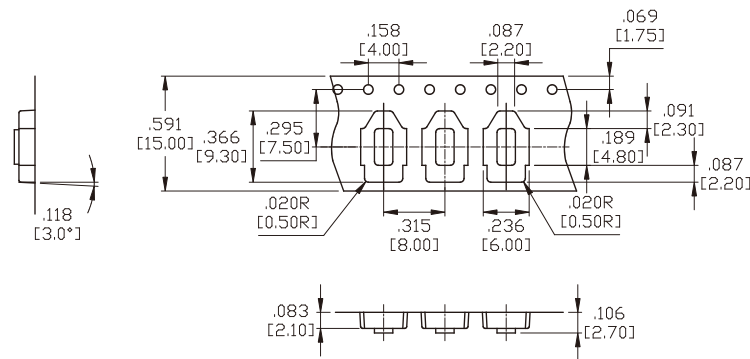


12NTR

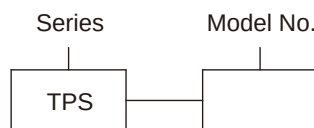
REFLOW PATTERN



REEL TAPING



HOW TO ORDER



Toggle

Rocker

Slide

Pushbutton

AV

Rotary

Tact

Touch Key

Miscellaneous

SPECIFICATIONS:

RATING: 30VDC 500mA.
 OPERATING FORCE: 50gf max.
 LIFE: 100,000 cycles min.
 CONTACT RESISTANCE: 100m-ohms max (initial).
 INSULATION RESISTANCE: 100M-ohms min (500VDC).
 DIELECTRIC STRENGTH: 250VAC 1 min.
 OPERATING TEMPERATURE: -15°C to +70°C.
 AMBIENT HUMIDITY: 35%~85%RH.

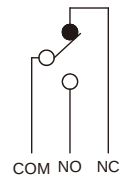
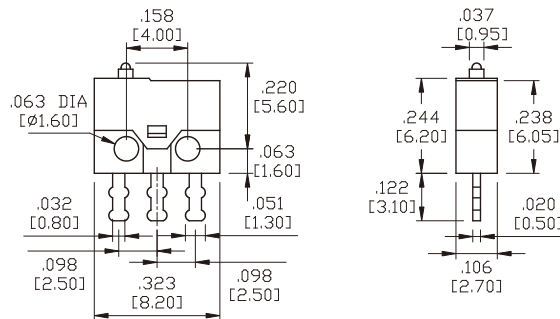
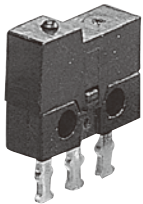
MATERIALS:

BODY: PBT.
 COVER: POM.
 LEVER: POM or SUS.
 BUTTON: POM.
 CONTACT: BeCu+Ag.
 TERMINAL: Silver+Ag.

Specifications and Dimensions subject to change

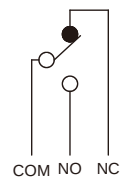
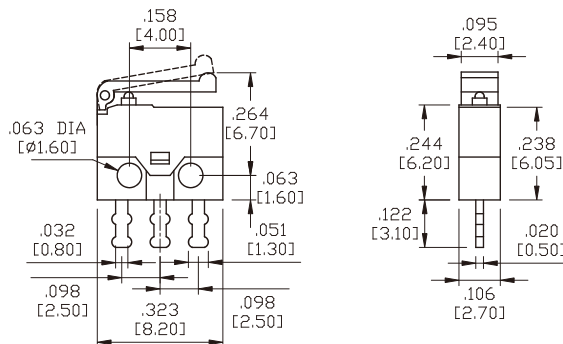
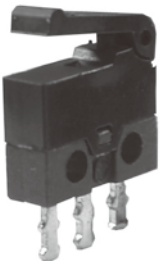
SSM-00

SCHEMATIC



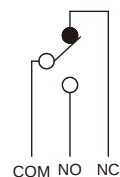
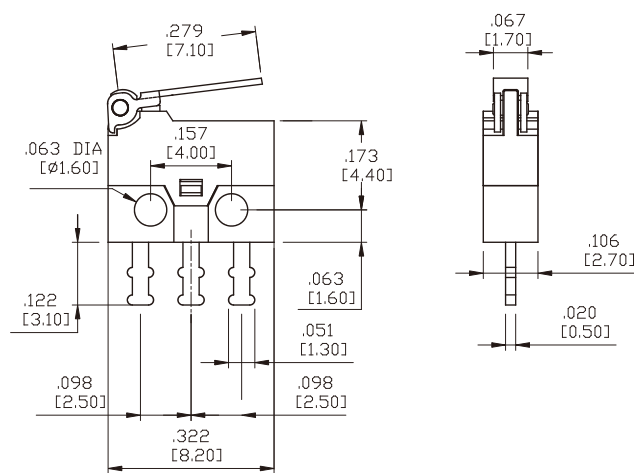
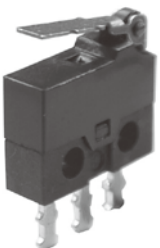
SSM-01

SCHEMATIC



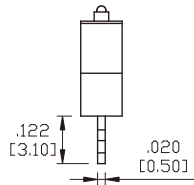
SSM-02

SCHEMATIC

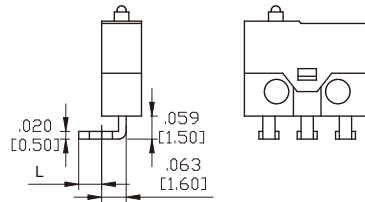


TERMINATION OPTIONS

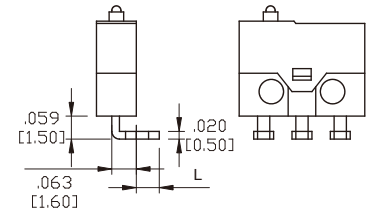
P TYPE



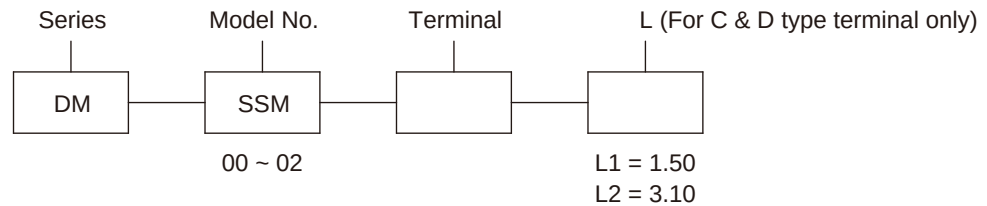
C TYPE



D TYPE



HOW TO ORDER

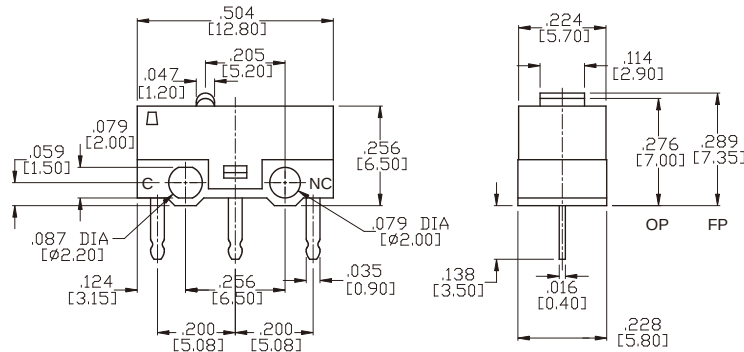
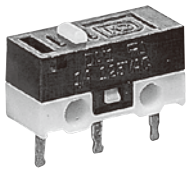


SPECIFICATIONS:

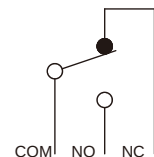
RATING: AC125V 1A, (OPTIONAL AC125V @ 3A, 0.1A @ 250VAC).
 INSULATION RESISTANCE: >100M-ohms DC500V.
 DIELECTRIC STRENGTH: AC500V 1 min.
 CONTACT RESISTANCE: <50m-ohms.
 SOLDERING TEMPERATURE: 225°C max. 5 sec.
 MECHANICAL LIFE: 1,000,000 cycles.
 ELECTRICAL LIFE: 30,000 cycles.
 OPERATING TEMPERATURE: -25°C to +65°C.
 AMBIENT HUMIDITY: <85% RH.

Specifications and Dimensions subject to change

DM-00

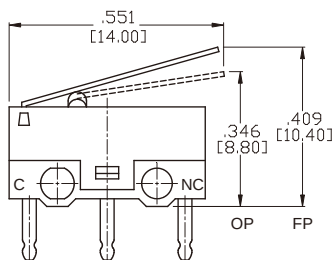


SCHEMATIC

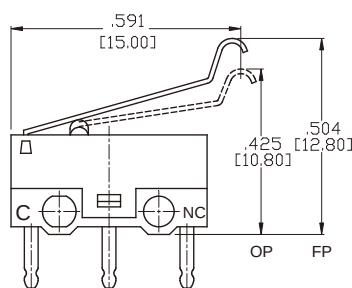


LEVER OPTIONS

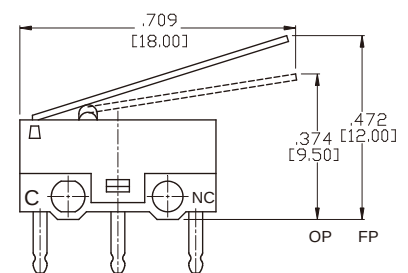
DM-01



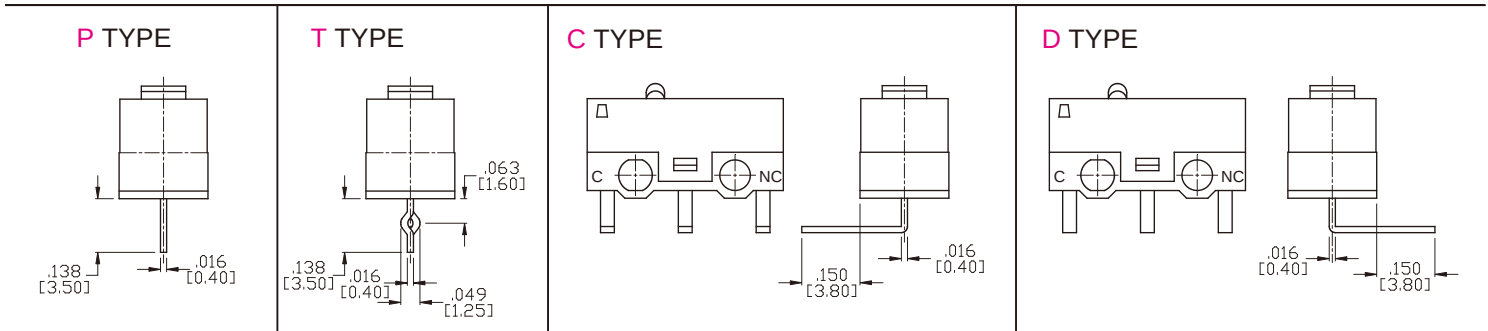
DM-02



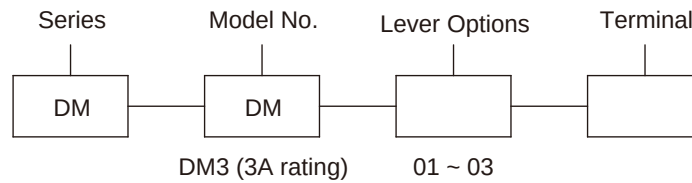
DM-03



TERMINATION OPTIONS



HOW TO ORDER

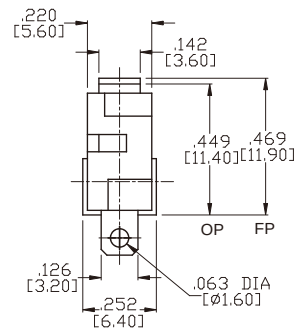
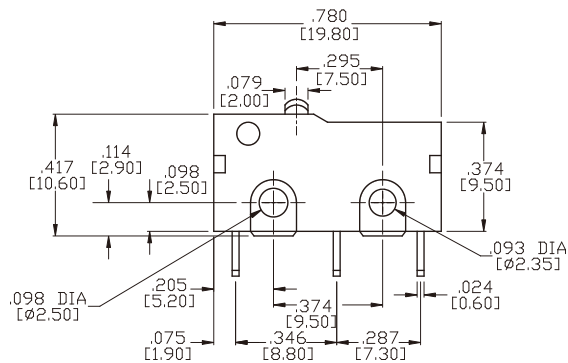


SPECIFICATIONS:

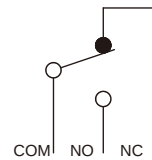
RATING: AC 125V 3A (OPTIONAL AC125V @ 5A).
 INSULATION RESISTANCE: >100M-ohms DC500V.
 DIELECTRIC STRENGTH: AC1000V 1 min.
 CONTACT RESISTANCE: <50m-ohms.
 SOLDERING TEMPERATURE: 225°C max. 5 sec.
 MECHANICAL LIFE: 1,000,000 cycles.
 ELECTRICAL LIFE: 200,000 cycles.
 OPERATING TEMPERATURE: -25°C to +80°C.
 AMBIENT HUMIDITY: <85% RH.

Specifications and Dimensions subject to change

SM-00



SCHEMATIC



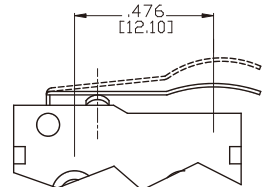
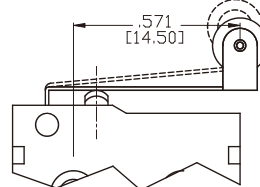
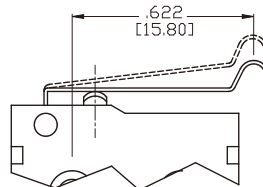
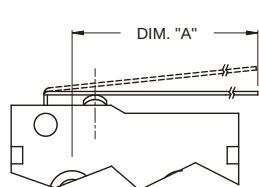
LEVER OPTIONS

SM-04

SM-05

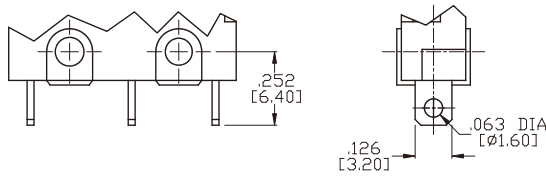
SM-06

Model No.	DIM. "A"
SM-01	.571 [14.50]
SM-02	.650 [16.50]
SM-03	.890 [22.60]
SM-07	1.685 [42.80]

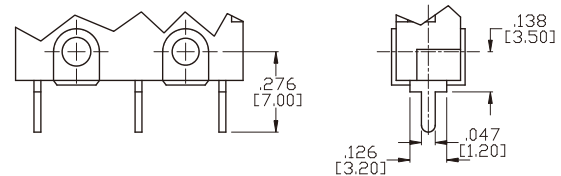


TERMINATION OPTIONS

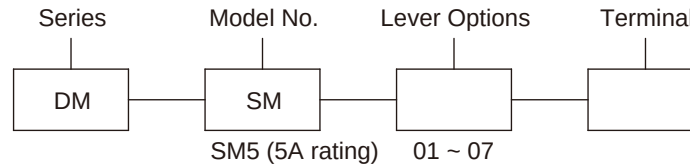
M1



M2



HOW TO ORDER

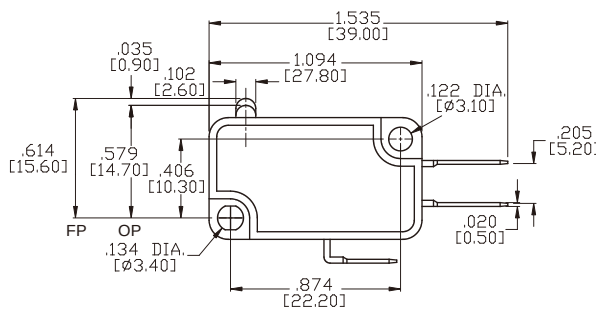


SPECIFICATIONS:

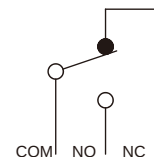
RATING: AC125V 3A (OPTIONAL 5A @ 125VAC, 0.1A @ 250VAC).
INSULATION RESISTANCE: >100M-ohms DC500V.
DIELECTRIC STRENGTH: AC1000V 1 min.
CONTACT RESISTANCE: <100m-ohms.
SOLDERING TEMPERATURE: 225°C max. 5 sec.
MECHANICAL LIFE: 5,000,000 cycles.
ELECTRICAL LIFE: 200,000 cycles.
OPERATING TEMPERATURE: -25°C to +80°C.
AMBIENT HUMIDITY: <85% RH.

Specifications and Dimensions subject to change

VM-00



SCHEMATIC



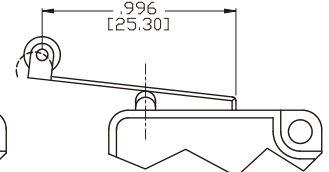
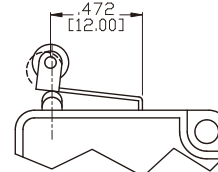
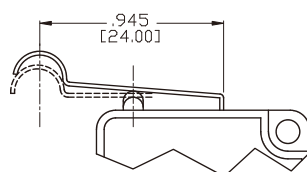
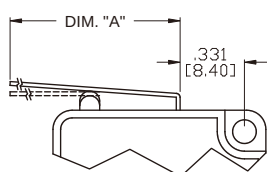
LEVER OPTIONS

VM-04

VM-05

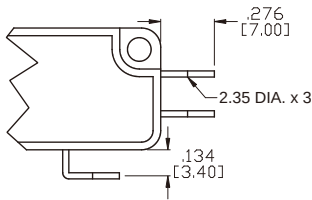
VM-06

Model No.	DIM. "A"
VM-01	.531 [13.50]
VM-02	1.071 [27.20]
VM-03	2.012 [51.10]

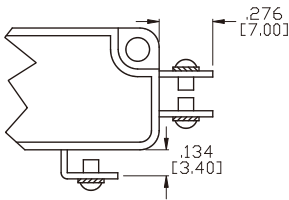


TERMINATION OPTIONS

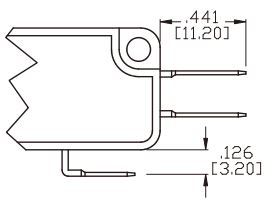
A TYPE



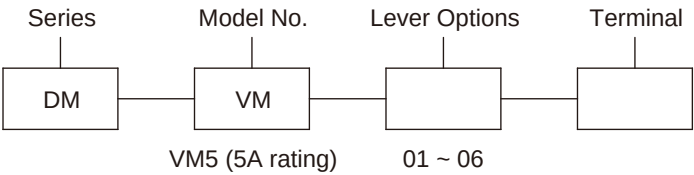
B TYPE



C TYPE (QUICK CONNECT 250 series)



HOW TO ORDER



DESCRIPTIONS:

Zinc alloy die cast housing and cylinder, chrome plated.
Zinc alloy keys, chrome plated.
Silver plated contacts and terminals.
S102 2 Positions(off-on)2 Terminals.
S103 2 Positions(on-on)4 Terminals.
S104 3 Positions(off-on-on)4 Terminals.
1 Combination available.

SPECIFICATIONS:

CONTACT RATING: 1A 125VAC, 0.5A 250VAC.
CONTACT RESISTANCE: 10m-ohms max.
INSULATION RESISTANCE: 200M-ohms min.
DIELECTRIC STRENGTH: 1,000VAC 1 min.

KEY-PULL FIGURES:

- -Off Position.
- I -Indicates key-pull.
- -Indicates No key-pull.



Fig. 1



Fig. 2



Fig. 3

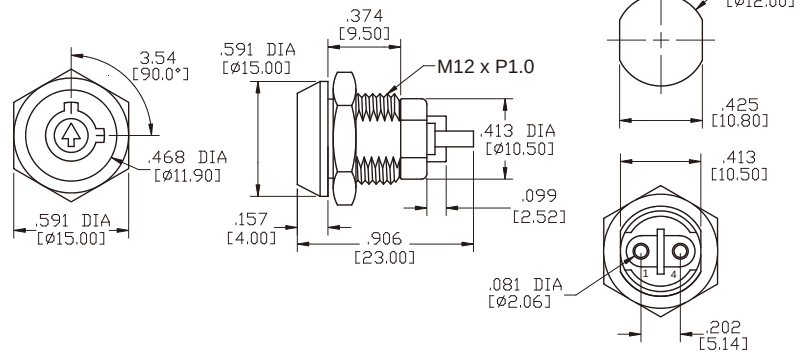


Fig. No.	Lock Number	Pole	Positions	Terminals	Key Pulls	Turn	Symbol	Type
1	S102-2	1	2	2	2	90°	Off On	SPST
2	S103	1	2	4	2	90°	On On	SPDT
3	S104	1	3	4	3	45°-0°-90°	Off On On	SPDT

DESCRIPTIONS:

Zinc alloy die cast housing and cylinder, chrome plated.
Zinc alloy keys, chrome plated.
Silver plated contacts and terminals.
S106 2 Positions(off-on)2 Terminals.
S116 2 Positions(on-on)4 Terminals.
200 Combinations available.

SPECIFICATIONS:

CONTACT RATING: 1A 125VAC, 0.5A 250VAC.
CONTACT RESISTANCE: 10m-ohms max.
INSULATION RESISTANCE: 200M-ohms min.
DIELECTRIC STRENGTH: 1,000VAC 1min.

KEY-PULL FIGURES:

- -Off Position.
- I -Indicates key-pull.
- -Indicates No key-pull.



Fig. 1



Fig. 2



Fig. 3



Fig. 4

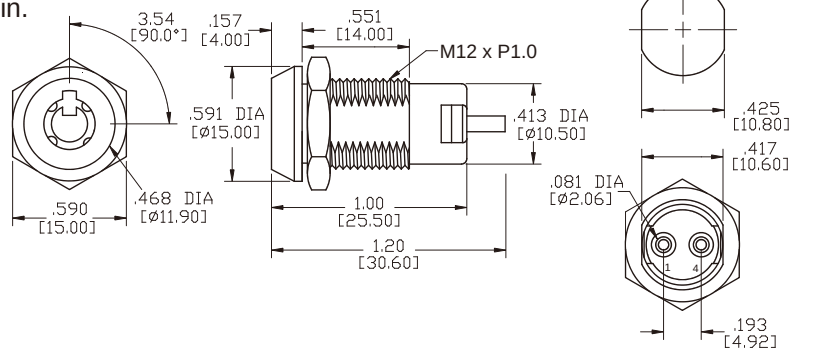


Fig. No.	Lock Number	Pole	Positions	Terminals	Key Pulls	Turn	Symbol	Type
1	S106-1	1	2	2	1	90°	Off On	SPST
2	S106-2	1	2	2	2	90°	Off On	SPST
3	S116-1	1	2	4	1	90°	On On	SPDT
4	S116-2	1	2	4	2	90°	On On	SPDT

DESCRIPTIONS:

Zinc alloy die cast housing and cylinder, chrome plated.
Brass keys, nickel plated.
Silver plated contacts and terminals.
2 positions (off-on).
S109B key may be withdrawn in one or both positions.
20 Combinations available.

SPECIFICATIONS:

CONTACT RATING: 1A 125VAC, 0.5A 250VAC.
CONTACT RESISTANCE: 10m-ohms max.
INSULATION RESISTANCE: 200M-ohms min.
DIELECTRIC STRENGTH: 1,000VAC 1 min.

KEY-PULL FIGURES:

- -Off Position
- I -Indicates key-pull
- -Indicates No key-pull



Fig. 1



Fig. 2

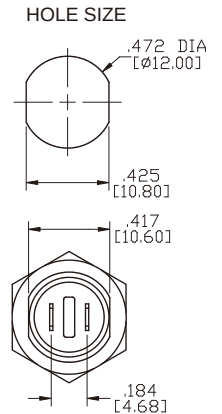
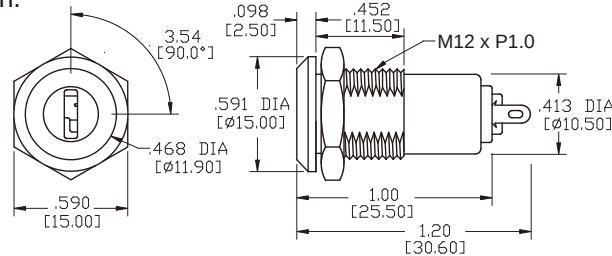


Fig. No.	Lock Number	Pole	Positions	Terminals	Key Pulls	Turn	Turn	Type
1	S1091B-1	1	2	2	1	90°	Off On	SPST
2	S1091B-2	1	2	2	2	90°	Off On	SPST

DESCRIPTIONS:

Zinc alloy die cast housing, chrome plated.
Brass key nickel plated, with plastic cap.
Silver plated contacts and terminals.
S331 2 Positions(on-on)60° index 3 Terminals.
S332 2 Positions(off-on)60° index 2 Terminals.
S333 3 Positions(off-on-on)60° index 3 Terminals.
10 Combinations available.

SPECIFICATIONS:

CONTACT RATING: 1A 125VAC, 0.5A 250VAC.
CONTACT RESISTANCE: 10m-ohms max.
INSULATION RESISTANCE: 200M-ohms min.
DIELECTRIC STRENGTH: 1,000VAC 1 min.

KEY-PULL FIGURES:

- -Off Position
- I -Indicates key-pull
- -Indicates No key-pull



Fig. 1



Fig. 2



Fig. 3

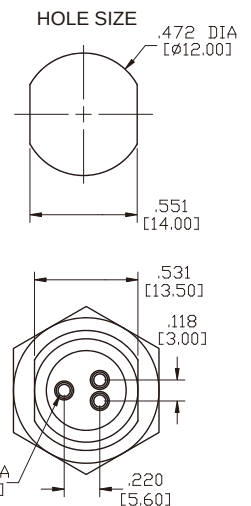
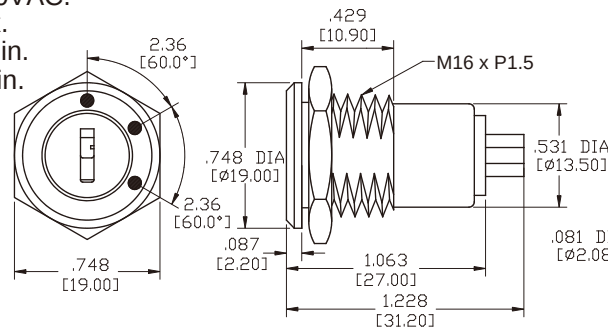
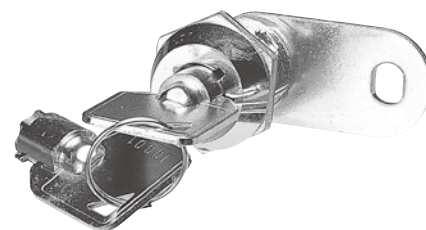


Fig. No.	Lock Number	Pole	Positions	Terminals	Key Pulls	Turn	Turn	Type
1	S331	1	2	3	2	60°	On On	SPDT
2	S332	1	2	2	2	60°	Off On	SPST
3	S333	1	3	3	3	120°	Off On On	SPDT

DESCRIPTIONS:

C510 Brass housing and cylinder chrome plated.
C510Z Zinc alloy die cast housing and cylinder chrome plated.
Steel made tubular keys, nickel plated.
Four sizes available.
Used for: Cabinets, vending machines, cash boxes, mail boxes,
computer, phone exchanger door, etc.
50,000 Combinations available.



KEY-PULL FIGURES:

- -Off Position
- I -Indicates key-pull
- -Indicates No key-pull

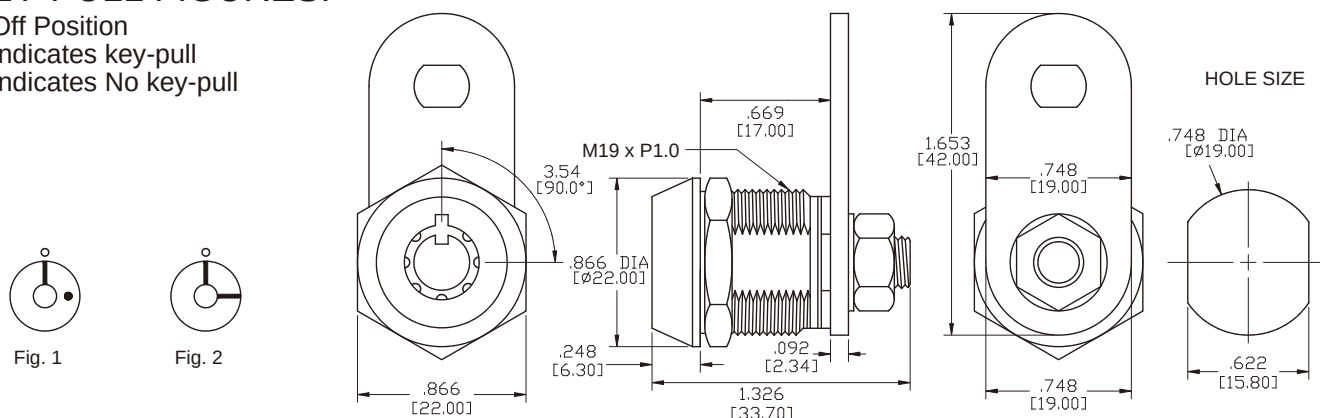
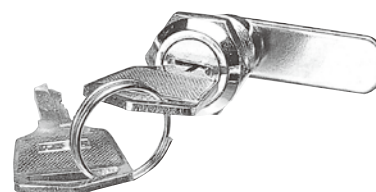


Fig. No.	Lock Number	Positions	Key Pulls	Turn
1	C510-1	2	1	90°
2	C510-2	2	2	90°

DESCRIPTIONS:

Zinc alloy die cast housing and cylinder, chrome plated.
Brass key, nickel plated.
Various cam configurations available.
20 Combinations available.



KEY-PULL FIGURES:

- -Off Position
- I -Indicates key-pull
- -Indicates No key-pull

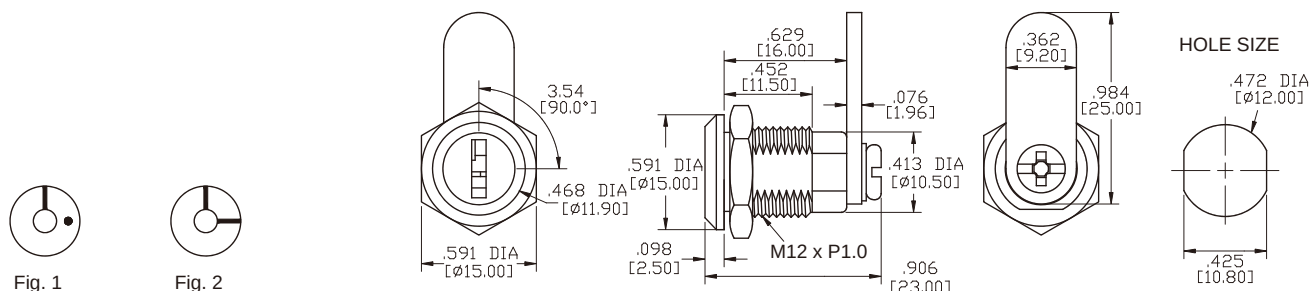
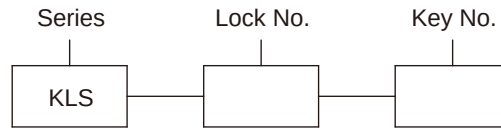


Fig. No.	Lock Number	Positions	Key Pulls	Turn
1	C1091-1	2	1	90°
2	C1091-2	2	2	90°

HOW TO ORDER

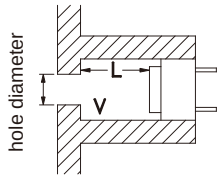


* Key number must be specified when ordering, otherwise random number will be supplied.

Specifications and Dimensions subject to change

HELMHOLTZ RESONATOR:

For increasing sound pressure level and/or modifying resonant frequency. It is possible to increase the sound pressure level at a certain frequency. An appropriate resonator is provided for an acoustic transducer as illustrated below. The resonant frequency is determined by the equation given below, through a slight adjustment is necessary to add volume enclosed within the transducer.

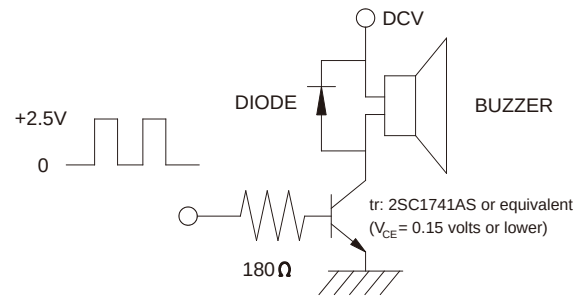


$$f = \frac{CD}{4} \sqrt{\frac{1}{\pi V(L+0.75D)}}$$

f : frequency(Hz)
 V : Resonance volume(m³)
 D : Hole diameter(m)
 L : Hole length(m)
 C : Speed of sound(334 m/sec 20°C)
 $C=331.5+0.607\varnothing$
 $\varnothing$: Temperature(°C)

MEASURING CIRCUIT:

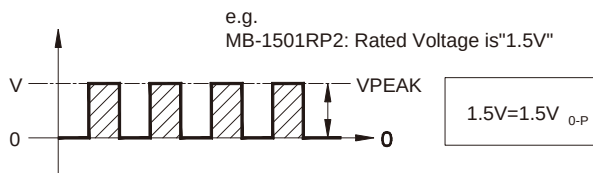
Our standard circuit for measurement is as shown below:
 $(V_{CE} = 0.15 \text{ volts or lower})$



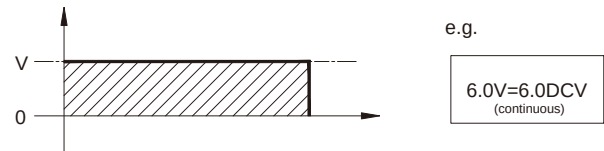
RATED VOLTAGES:

The term "Rated Voltage" in the specification of MEGA's transducers and buzzer are described as

● For Miniature Audio Transducers(External Drive Circuitry)



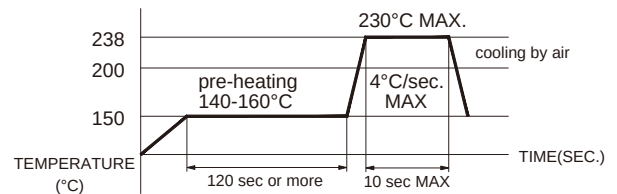
● For Miniature Audio Transducers and Low Pitched Sound Buzzers
 (Self-Contained Drive Circuitry)



TEMPERATURE PROFILE FOR REFLOWABLE TRANSDUCERS:

Reference standard: EIAJ ED-4702

1. Recommendable reflow soldering condition is as follow.
 (Reflow soldering is two times)
 Note: It is requested that 2nd reflow soldering should be executed after heat of product goes down to normal temperature.
2. Manual soldering
 Soldering iron temperature: °C, within 10 seconds.



RELIABILITY:

	TEST ITEM	TEST METHOD	TEST PERIOD
1	High temperature storage test	+70°C, free load	96 Hr.
2	Low temperature storage test	-30°C, free load	96 Hr.
3	Thermal shock test	-30 to +70°C, each cycle 30 min.	100 cycles
4	Standard condition life test	standard test circuit, 1.5V 1/2 DUTY, PEAK Hz.	96 Hr.
5	Anti-humidity operating test	+60°C, 90% RH, rated load	96 Hr.
6	Vibration test	10-55 Hz, 5G, X,Y,Z direction	each direction 2 Hr.
7	Drop test	1. 120cm,X,Y,Z, direction 2. with 75g case, 30cm, 6 face	1. 10 times 2. 10 times
8	Solder heat withstanding test	260 ± 5°C 10 sec. or less by manual solder	
9	Terminal force test	pulling force 10Kg	10 times

STANDARD TEST CONDITION:

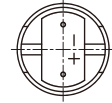
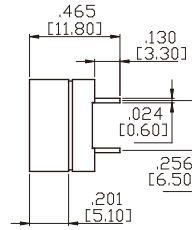
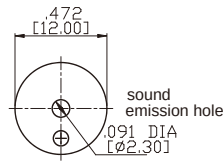
Normal temperature	+5°C to +35°C
Normal humidity	45 to 85%RH
Normal atmospheric pressure	860 to 1060 hpa

REMARK: When a doubt has arisen as to judgment, conditions must be at 20 ± 2°C, 60 to 70%RH and 860 to 1060 hpa.

REMARK:

1. No significant change shall occur both in appearance and in structure after reliability test.
2. Change in sound pressure level should be within the range of ±5dB after reliability test.
3. No abnormality both in operation and in tone quality is allowed after reliability test.
4. Specification and dimensions subject to change.

MB-11



SPECIFICATIONS

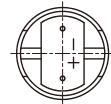
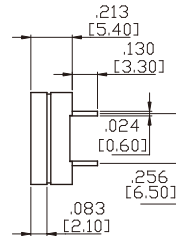
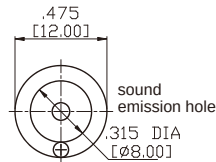
TYPE		MB-11P	MB-111P
RATED VOLTAGE (V)		1.5	1.5
#CURRENT CONSUMPTION (mA)		MAX 35	MAX 20
COIL RESISTANCE (Ohms)		16 ± 2.4	42 ± 6.3
#SOUND PRESSURE LEVEL (dB)		85	85
RESONANCE FREQUENCY (Hz)		2048	2048
OPERATING VOTAGE (V)		max. 2	max. 2
OPERATING TEMPERATURE (°C)		-20 to +60	-20 to +60
STORAGE TEMPERATURE (°C)		-30 to +70	-30 to +70
WEIGHT (g)		2	2

FEATURES:

COMPACT, RICH SOUND

#VALUE APPLYING RATED VOLTAGE.(2048Hz, 1/2 DUTY CYCLE,SQUARE WAVE)

MB-11PS



SPECIFICATIONS

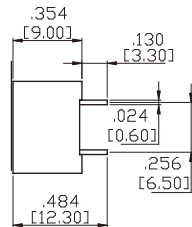
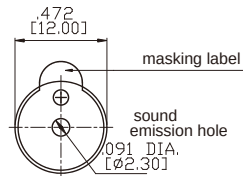
TYPE		MB-11PS
RATED VOLTAGE (V)		1.5
#CURRENT CONSUMPTION (mA)		MAX 35
COIL RESISTANCE (Ohms)		16 ± 4.5
#SOUND PRESSURE LEVEL (dB)		70
RESONANCE FREQUENCY (Hz)		2048
OPERATING VOTAGE (V)		max. 2
OPERATING TEMPERATURE (°C)		-20 to +60
STORAGE TEMPERATURE (°C)		-30 to +70
WEIGHT (g)		2

FEATURES:

COMPACT, RICH SOUND

#VALUE APPLYING RATED VOLTAGE.(2048Hz, 1/2 DUTY CYCLE,SQUARE WAVE)

MB-120



SPECIFICATIONS

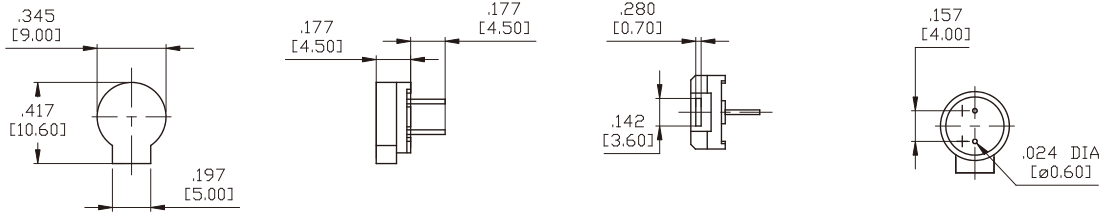
TYPE		MB-1201	MB-1205
RATED VOLTAGE (V)		1.5	1.5
#CURRENT CONSUMPTION (mA)		MAX 35	MAX 20
COIL RESISTANCE (Ohms)		16 ± 3	40 ± 6
#SOUND PRESSURE LEVEL (dB)		85	85
RESONANCE FREQUENCY (Hz)		2800	2400
OPERATING VOTAGE (V)		max. 2	max. 2
OPERATING TEMPERATURE (°C)		-30 to +70	-30 to +70
STORAGE TEMPERATURE (°C)		-40 to +85	-40 to +85
WEIGHT (g)		2	2

FEATURES:

COMPACT, RICH SOUND

#VALUE APPLYING RATED VOLTAGE.(2400Hz, 1/2 DUTY CYCLE,SQUARE WAVE)

MB-1501RP



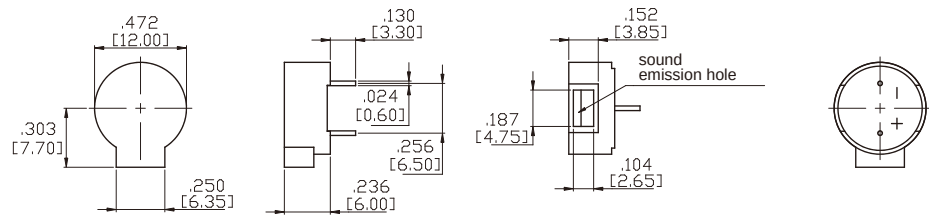
SPECIFICATIONS

TYPE		MN-1501RP
RATED VOLTAGE (V)		1.5
#CURRENT CONSUMPTION (mA)		MAX 80
COIL RESISTANCE (Ohms)		6.0 ± 1
#SOUND PRESSURE LEVEL (dB)		85
RESONANCE FREQUENCY (Hz)		2730
OPERATING VOTAGE (V)		1.0 to 2.0
OPERATING TEMPERATURE (°C)		-20 to +60
STORAGE TEMPERATURE (°C)		-30 to +70
WEIGHT (g)		0.6

FEATURES:

Low profile, small (Ø9.0*4.5) design.

MB-RP/A



SPECIFICATIONS

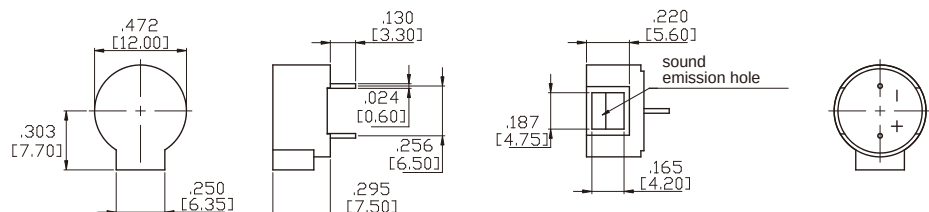
TYPE		MB-RP/A
RATED VOLTAGE (V)		1.5
#CURRENT CONSUMPTION (mA)		MAX 80
COIL RESISTANCE (Ohms)		5.0 ± 1
#SOUND PRESSURE LEVEL (dB)		85
RESONANCE FREQUENCY (Hz)		2730
OPERATING VOTAGE (V)		max. 2
OPERATING TEMPERATURE (°C)		-20 to +60
STORAGE TEMPERATURE (°C)		-30 to +70
WEIGHT (g)		2

FEATURES:

Side sound port, high output sound pressure level, small and low profile design.

#VALUE APPLYING RATED VOLTAGE.(2731Hz,1/2 DUTY CYCLE,SQUARE WAVE)

MB-RP/B



SPECIFICATIONS

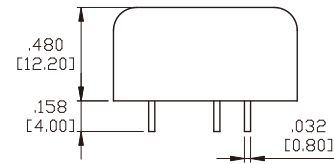
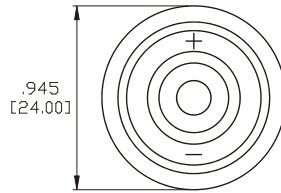
TYPE		MB-RP/B
RATED VOLTAGE (V)		1.5
#CURRENT CONSUMPTION (mA)		MAX 70
COIL RESISTANCE (Ohms)		6.5 ± 1
#SOUND PRESSURE LEVEL (dB)		85
RESONANCE FREQUENCY (Hz)		2730
OPERATING VOTAGE (V)		max. 2
OPERATING TEMPERATURE (°C)		-20 to +60
STORAGE TEMPERATURE (°C)		-30 to +70
WEIGHT (g)		2

FEATURES:

Side sound port, high output sound pressure level, small and low profile design.

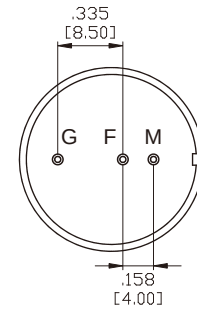
#VALUE APPLYING RATED VOLTAGE.(2731Hz,1/2 DUTY CYCLE,SQUARE WAVE)

KPE-123

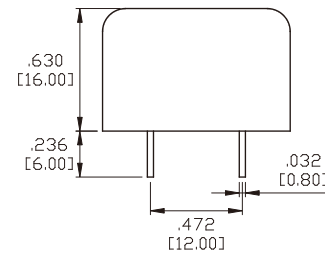
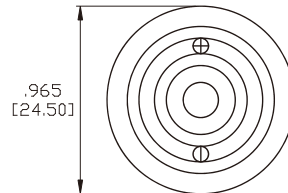


SPECIFICATIONS

TYPE	KPE-123	
RATED VOLTAGE (V)		12
#CURRENT CONSUMPTION (mA)		MAX 8
#SOUND PRESSURE LEVEL (dB)		82
RESONANCE FREQUENCY (Hz)		3.0±0.5
OPERATING VOTAGE (V)		3 to 28
OPERATING TEMPERATURE (°C)		-30 to +85
STORAGE TEMPERATURE (°C)		-40 to +95
WEIGHT (g)		3.4
TONE		CONTINUOUS
MATERIAL		ABS (BLACK)

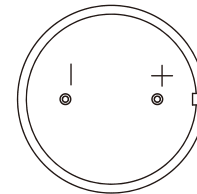


KPE-203

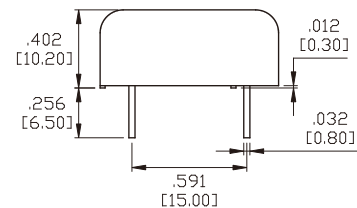
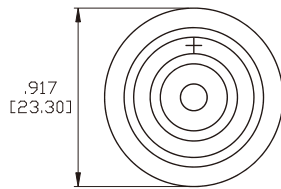


SPECIFICATIONS

TYPE	KPE-203	
RATED VOLTAGE (V)		12
CURRENT CONSUMPTION (mA)		MAX 9
SOUND PRESSURE LEVEL (dB)		88
RESONANCE FREQUENCY (Hz)		3.4±0.5
OPERATING VOTAGE (V)		3 to 20
OPERATING TEMPERATURE (°C)		-30 to +85
STORAGE TEMPERATURE (°C)		-40 to +95
WEIGHT (g)		85
TONE		CONTINUOUS
MATERIAL		ABS (BLACK)

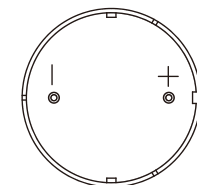


KPE-222

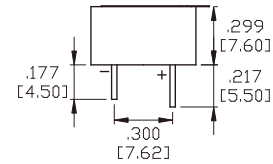
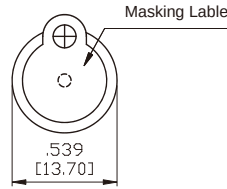


SPECIFICATIONS

TYPE	KPE-222	
RATED VOLTAGE (V)		12
CURRENT CONSUMPTION (mA)		MAX 13
SOUND PRESSURE LEVEL (dB)		75
RESONANCE FREQUENCY (Hz)		3.2±0.5
OPERATING VOTAGE (V)		3 to 20
OPERATING TEMPERATURE (°C)		-30 to +85
STORAGE TEMPERATURE (°C)		-40 to +95
WEIGHT (g)		85
TONE		CONTINUOUS
MATERIAL		ABS (BLACK)

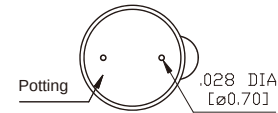


KPE-242

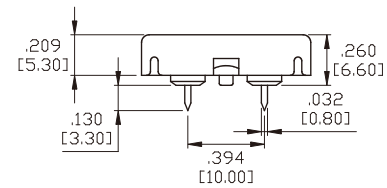
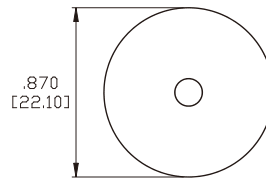


SPECIFICATIONS

TYPE	KPE-242	
RATED VOLTAGE (V)	12	
CURRENT CONSUMPTION (mA)	MAX 7	
SOUND PRESSURE LEVEL (dB)	70	
RESONANCE FREQUENCY (Hz)	4.1±0.5	
OPERATING VOTAGE (V)	3 to 16	
OPERATING TEMPERATURE (°C)	-20 to +70	
STORAGE TEMPERATURE (°C)	-30 to +80	
WEIGHT (g)	1	
tone	CONTINUOUS	
MATERIAL	ABS (BLACK)	

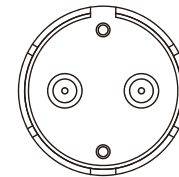


KPE-813

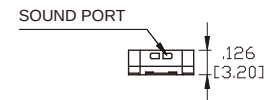
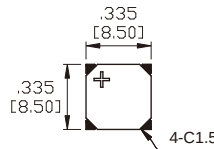


SPECIFICATIONS

TYPE	KPE-813	
ELECTROSTATIC CAPACITY (pF)	12,000±30%	
CURRENT CONSUMPTION (mA)	MAX 6	
SOUND PRESSURE LEVEL (dB)	84	
OPERATING VOTAGE (V)	MAX 30	
OPERATING TEMPERATURE (°C)	-30 to +85	
STORAGE TEMPERATURE (°C)	-40 to +95	
WEIGHT (g)	2.54	
MATERIAL	ABS (BLACK)	



KSS-J4B20

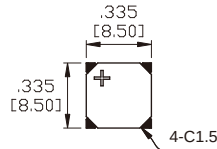


SPECIFICATIONS

TYPE	KSS-J4B20	
RATED VOLTAGE (V)	3.6	
MEAN CURRENT (mA)	MAX 80	
SOUND OUTPUT (dB)	90	
RATED FREQUENCY (Hz)	2730	
OPERATING VOTAGE (V)	3.0 to 5.0	
COIL RESISTANCE (Ohms)	20±3	
COIL IMPEDANCE (Ohms)	32.0	
OPERATING TEMPERATURE (°C)	-30 to +70	
STORAGE TEMPERATURE (°C)	-40 to +85	
WEIGHT (g)	0.7	
MATERIAL	L.C.P (WHITE)	

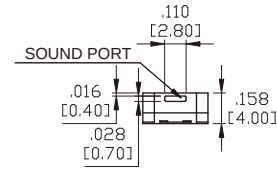


KSS-74B20-T/R

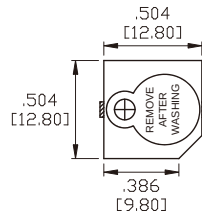


SPECIFICATIONS

TYPE	KSS-74B20-T/R	
RATED VOLTAGE (V)		3.6
MEAN CURRENT (mA)		MAX 80
SOUND OUTPUT (dB)		90
RATED FREQUENCY (Hz)		2730
OPERATING VOTAGE (V)		3.0 to 5.0
COIL RESISTANCE (Ohms)		20±3
COIL IMPEDANCE (Ohms)		32.0
OPERATING TEMPERATURE (°C)		-30 to +70
STORAGE TEMPERATURE (°C)		-40 to +85
WEIGHT (g)		0.7
MATERIAL		L.C.P (WHITE)

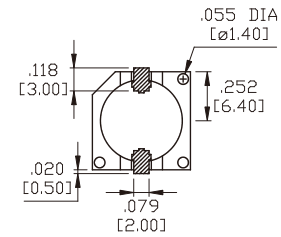
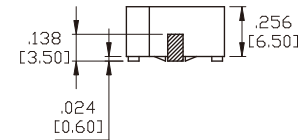


KT-1205

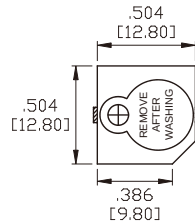


SPECIFICATIONS

TYPE	KT-1205	
RATED VOLTAGE (V)		5
MEAN CURRENT (mA)		MAX 40
SOUND OUTPUT (dB)		87
RATED FREQUENCY (Hz)		2,400
OPERATING VOTAGE (V)		3.0 to 8.0
COIL RESISTANCE (Ohms)		45.0±6.7
COIL IMPEDANCE (Ohms)		90.0
OPERATING TEMPERATURE (°C)		-30 to +70
STORAGE TEMPERATURE (°C)		-40 to +85
WEIGHT (g)		2
MATERIAL		PPS (GRAY)

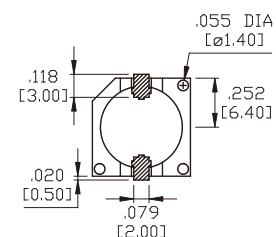
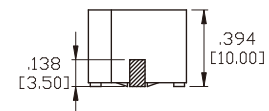


KT-1212C

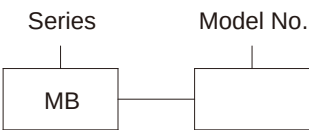


SPECIFICATIONS

TYPE	KT-1212C	
RATED VOLTAGE (V)		12
MEAN CURRENT (mA)		MAX 30
SOUND OUTPUT (dB)		85
RATED FREQUENCY (Hz)		2,400±300
OPERATING VOTAGE (V)		8.0 to 15.0
OPERATING TEMPERATURE (°C)		-30 to +70
STORAGE TEMPERATURE (°C)		-40 to +85
WEIGHT (g)		2
MATERIAL		PPS (GRAY)



HOW TO ORDER



SPECIFICATIONS:

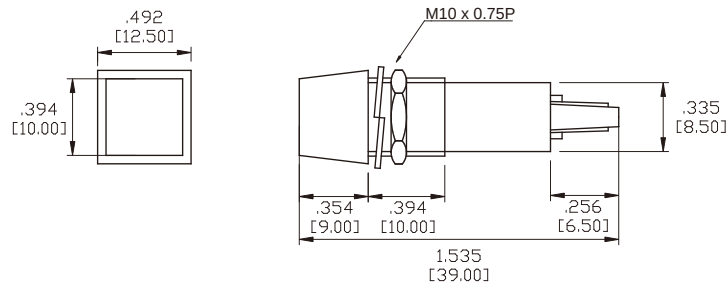
INSULATION RESISTANCE: 100M Ω min. @ 500VDC.
 DIELECTRIC STRENGTH: 200VAC min. for 1 minute.
 OPERATING TEMPERATURE: -25°C to +70°C.
 PULL FORCE BETWEEN TERMINAL & BASE:
 (a) Normal type 2kgf for 1 minute.
 (b) Sealed type 5kgf for 1 minute.
 PULL FORCE BETWEEN BASE & BODY:
 (a) Normal type 2kgf for 1 minute.
 (b) Sealed type 5kgf for 1 minute.
 HAND SOLDERING: 350 $\pm$ 5°C for 3sec. max.

MATERIALS:

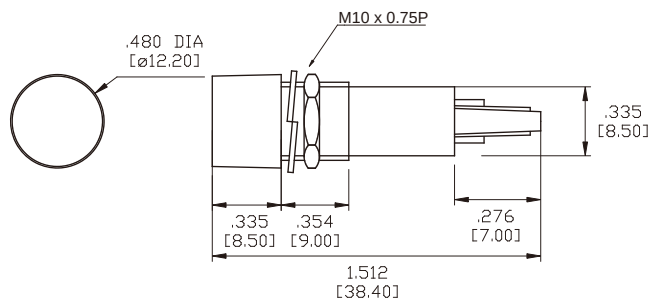
BODY: Polycarbonate UL 94V-0 or Acrylic.
 BASE: Glass fiber polyamide, UL 94V-0.
 ILLUMINANT: Neon lamp or LED.
 TERMINAL: Copper alloy, tin plated over nickel.
 WASHER: Polyamide, UL 94V-0 or iron hoop.
 NUT: M10x0.75P or M15x1P iron.

Specifications and Dimensions subject to change

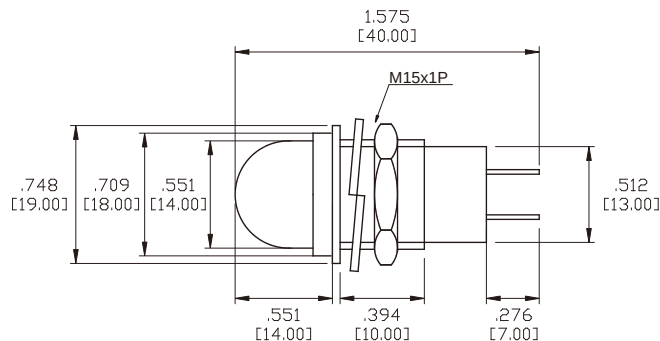
NI-01



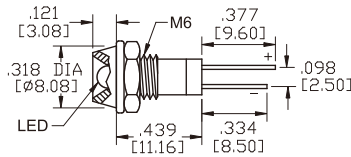
NI-02



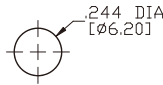
NI-03



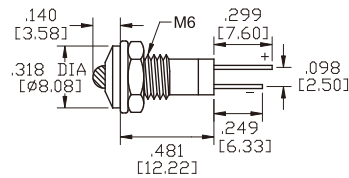
L-602 LED INDICATOR LIGHT W/O Resistor 2V



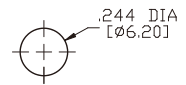
PANEL MOUNTING



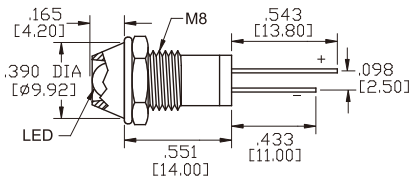
L-605 LED INDICATOR LIGHT W/O Resistor 2V



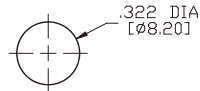
PANEL MOUNTING



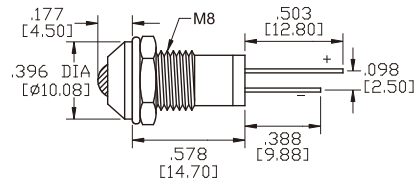
L-607 LED INDICATOR LIGHT W/O Resistor 2V



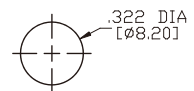
PANEL MOUNTING



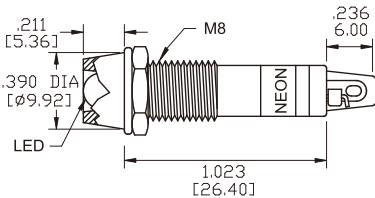
L-610 LED INDICATOR LIGHT W/O Resistor 2V



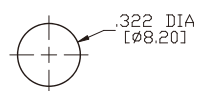
PANEL MOUNTING



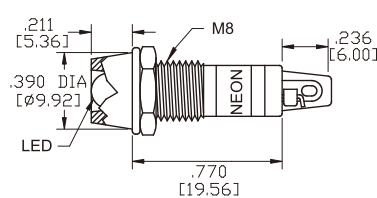
N-701 NEON / N-701L LED INDICATOR LIGHT W Resistor 120V 220V / W Resistor 6V 12V 24V



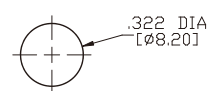
PANEL MOUNTING



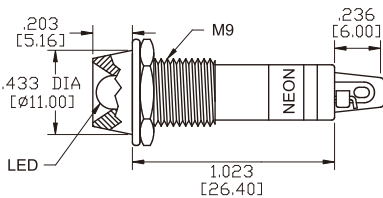
N-702 NEON / N-702P PILOT INDICATOR LIGHT W Resistor 120V 220V / W Resistor 6V 12V 24V



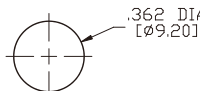
PANEL MOUNTING



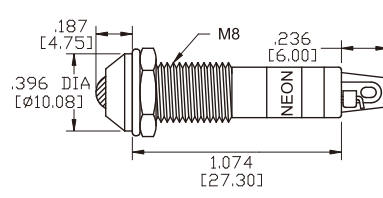
N-703 NEON INDICATOR LIGHT W Resistor 120V 220V



PANEL MOUNTING



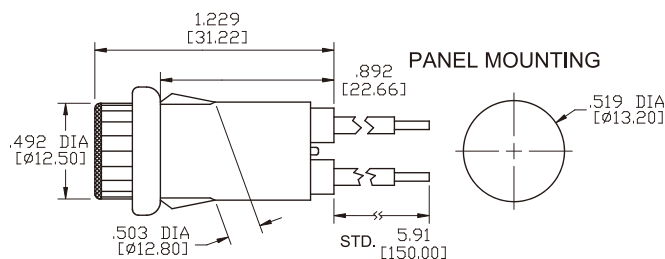
N-705 NEON / N-705L LED INDICATOR LIGHT W Resistor 120V 220V / W Resistor 6V 12V 24V



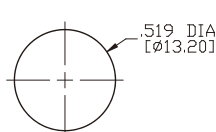
PANEL MOUNTING



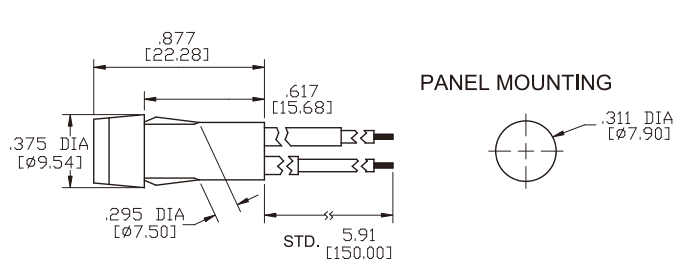
N-301 INDICATOR LIGHT W Resistor 120V 220V



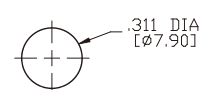
PANEL MOUNTING



N-381 INDICATOR LIGHT W Resistor 120V 220V

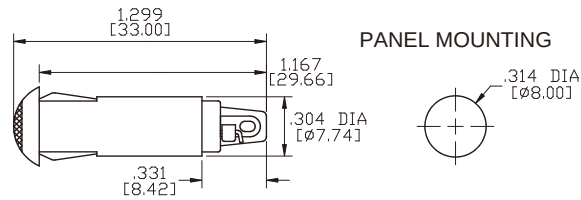


PANEL MOUNTING



N-369 INDICATOR LIGHT

W Resistor 120V 220V



LED & LAMP COLOR OPTIONS

LED Colors

Code	Color
1	Red
2	Orange
3	Green
4	Yellow
5	Blue
6	White

Lamp Colors

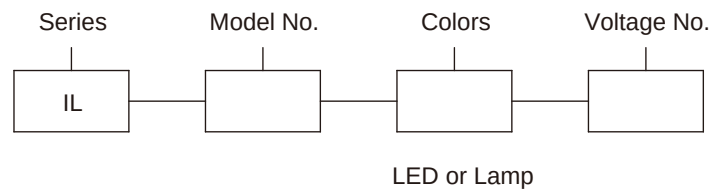
Code	Color
1	Red
2	Orange
3	Green
4	Amber
5	Blue
6	White

VOLTAGE OPTIONS

Code No.	Voltage	Indicator Lights						
		L-6xx	N-7xx	N-7xxL	N-7xxP	N-3xx	LI-xx	NI-xx
1	2V	●						
2	6V			●	●			
3	12V			●	●		●	
4	24V			●	●		●	
5	120V		●			●		●
6	220V		●			●		●
7	5V						●	

● :AVAILABLE

HOW TO ORDER





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總公司：23586 新北市中和區中山路二段359巷4,6,8號4樓

4F., No.4,6,8, Lane. 359, Sec. 2, Zhongshan Rd., Zhonghe Dist., New Taipei City 23586, Taiwan (R.O.C.)

TEL. +886.2.8228.1538

FAX. +886.2.8228.1283