SWITCHILL

RoHS Compliant
Pb Free

Rotary Switches

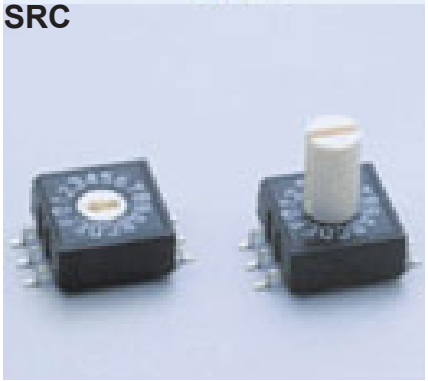
SRS, SRR, SRC & SRK Series

Terminals: 4x1, 3x3, 3x2 (9.8 x 9,8mm) and 10, 16 Steps

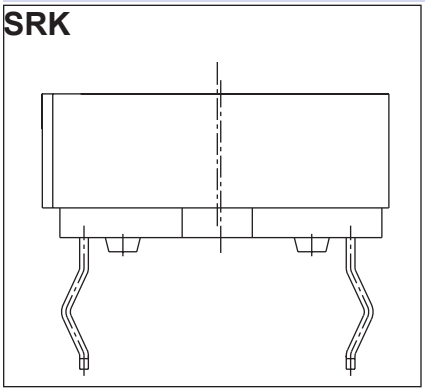
SRS

SRR

SRC



SRK



FEATURES:

- Straight terminals are available for mutual insertion.
- Insert molding of terminals and ultrasonic welding.
- Reflow-soldering type avalable.

MATERIAL:

- Base & Cover: UL 94V-0 Nylon Thermoplastic.
  Color: Black.
- Actuator: UL 94V-0 LCP Thermoplastic.
  Color: White.
- Contact: Alloy Copper.
- Terminal: Brass.
- Contact Plating: Gold plated over nickel.
- Terminal Plating: Gold plated.

SPECIFICATION

- Operation Temperature Range: -25°C to +80°C.
- Storage Temperature Range: -40°C to +85°C.
- Non-Switching Rating: 100mA, 50VDC.
- Switching Rating: 24VDC, 25mA.
- Contact Resistance: (a) 100mΩ max. (Initial).
  (b) 200mΩ (final-after test).
- Insulation Resistance: 100MΩ min. at 250VDC.
- Voltage Proof: 250VAC for 1 minute.
- Electrostatic Capacity: 5pF max.
- Operating Force: 200gf.Cm max.
- Vibration: Shall be vibrated in accordance with method 201A of MIL-STD-202F.
  (a) Frequency: 10-55-10Hz 1min/cycle.
  (b) Direction: 3 vertical directions including the direction of operation.
  (c) Test Time: 2 hours each direction.
- Shock Test: Shall be shocked in accordance with Method 213B condition A of MIL-STD-202F.
  (a) Acceleration: 50G.
  (b) Action Time: 11±1m sec.
  (c) Testing Direction: 6 sides.
  (d) Test Cycle: 3 times in each direction.
- Solderability: 230±5°C 3± sec, 75%.
- Humidity: 40±2°C 90~95% RS for 96 hours.
- Thermal Test: 85±2°C or 96 hours.
- Cold Test: -40C±3°C for 96 hours.
- Mechanical Life: 200mΩ max. 20000 steps.
- Electrical Life: 200mΩ max 20000 steps.

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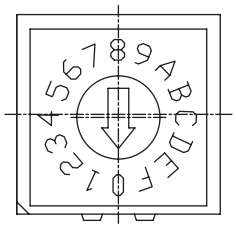
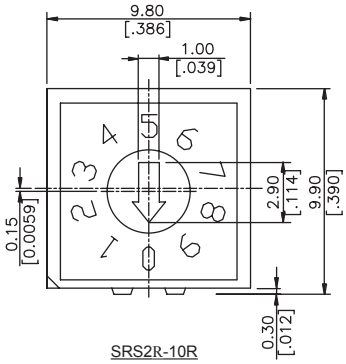
Terminals: 4x1, 3x3, 3x2 (9.8 x 9,8mm) and 10, 16 Steps

DIMENSIONS:

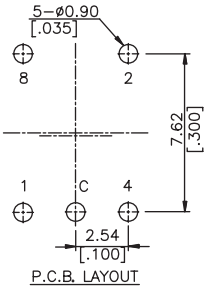
SRS2



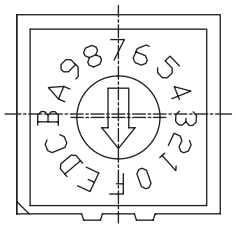
SRS2R-16R



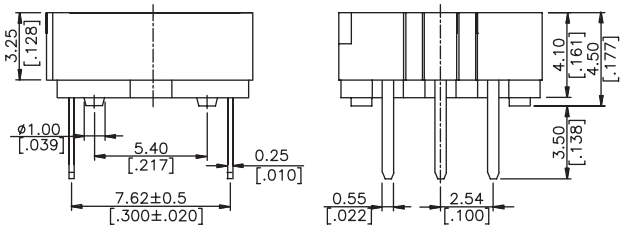
SRS2R-10R



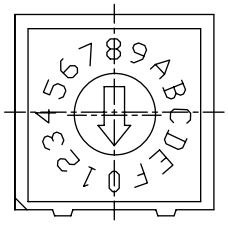
P.C.B. LAYOUT



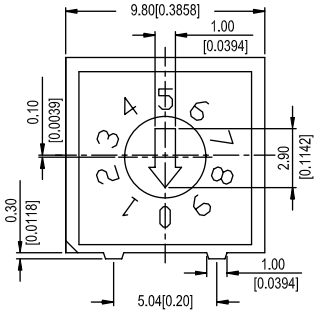
SRS2R-16C



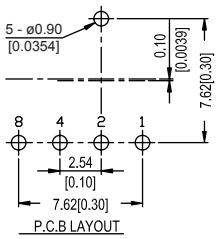
SRS4



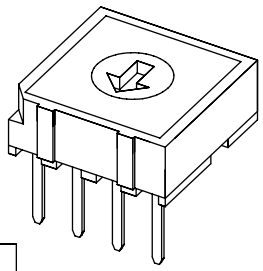
SRS4R-16R

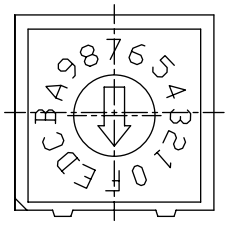


SRS4R-10R

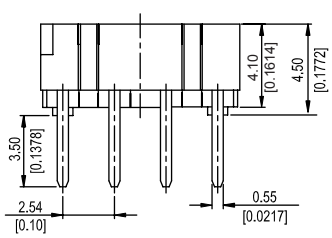


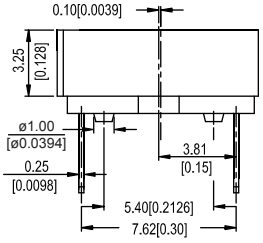
P.C.B LAYOUT





SRS4R-16C





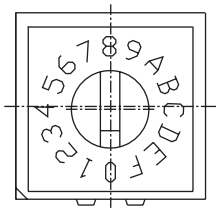
Rotary Switches

SRS, SRR, SRC & SRK Series

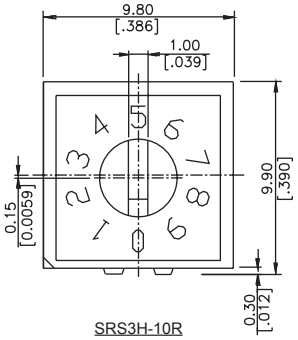
Terminals: 4x1, 3x3, 3x2 (9.8 x 9,8mm) and 10, 16 Steps

DIMENSIONS:

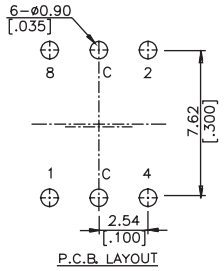
SRS3H



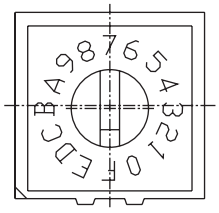
SRS3H-16R



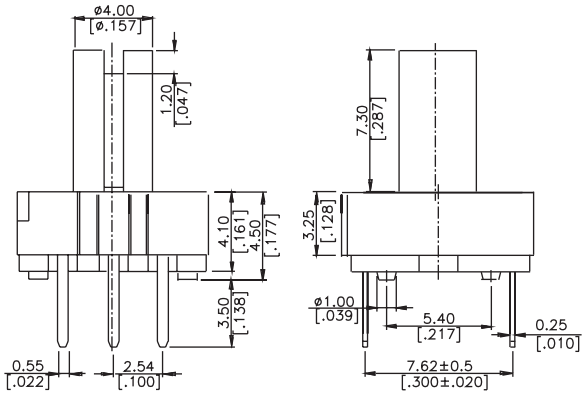
SRS3H-10R



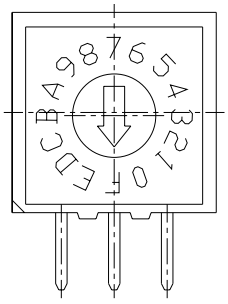
P.C.B. LAYOUT



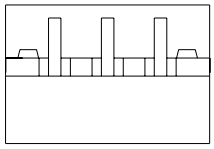
SRS3H-16C

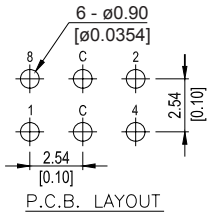


SRR3

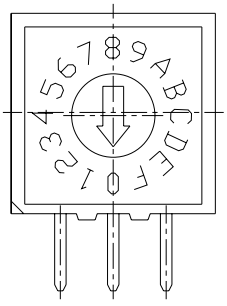


SRR3R-16C

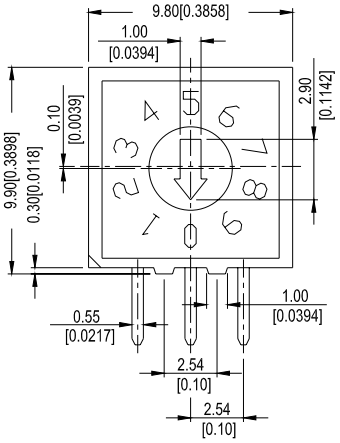




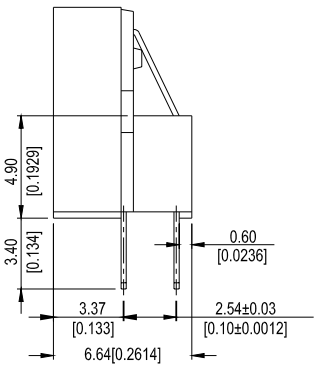
P.C.B. LAYOUT



SRR3R-16R

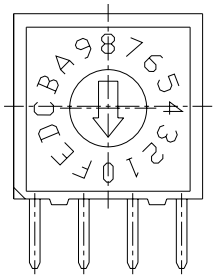


SRR3R-10R

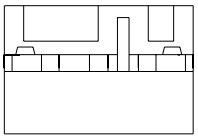


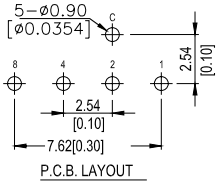
DIMENSIONS:

SRR4

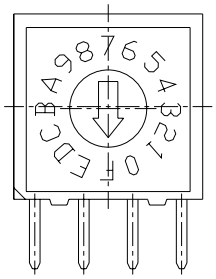


SRR4R-16R

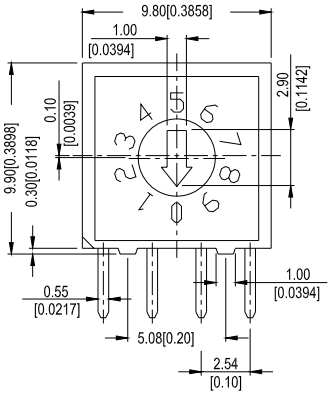


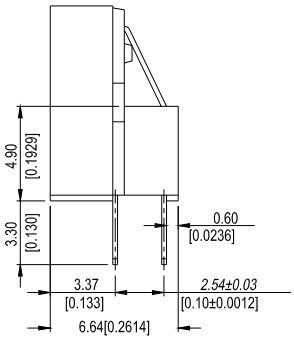


P.C.B. LAYOUT



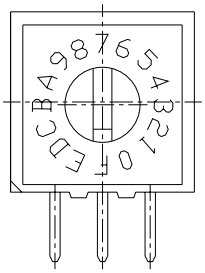
SRR4R-16C





SRR4R-10R

SRR3H



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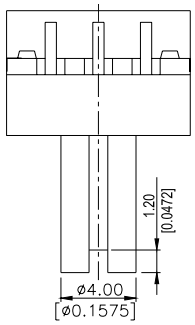
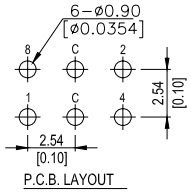
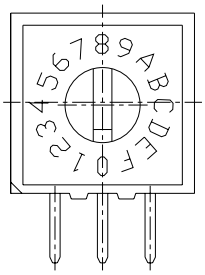
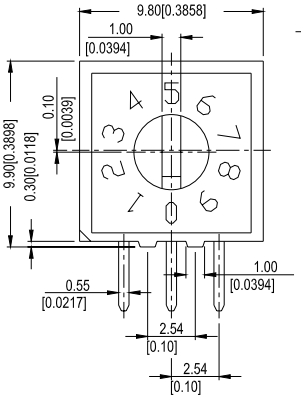


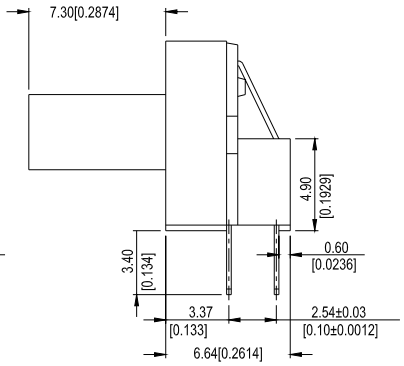


P.C.B. LAYOUT



SRR3H-16R





SRR3H-10R

Rotary Switches

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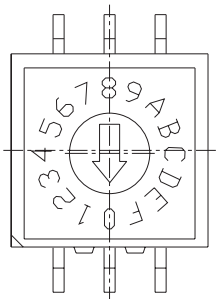
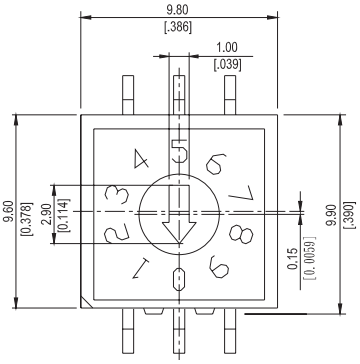
DIMENSIONS:

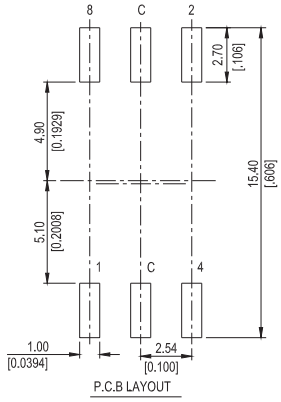
SRC3



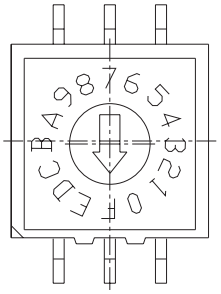
SRC3R-16R



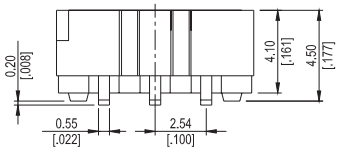
SRC3R-10R

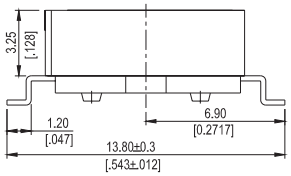


P.C.B LAYOUT

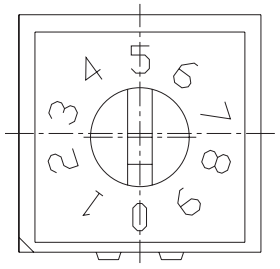


SRC3R-16C

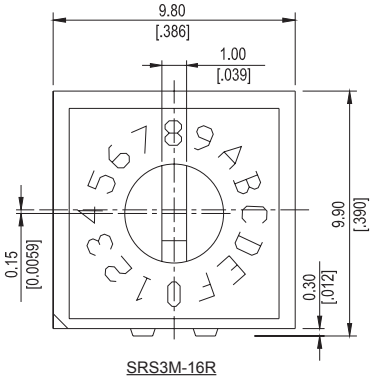




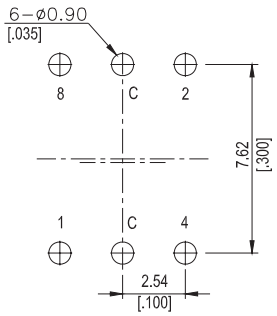
SRS3M



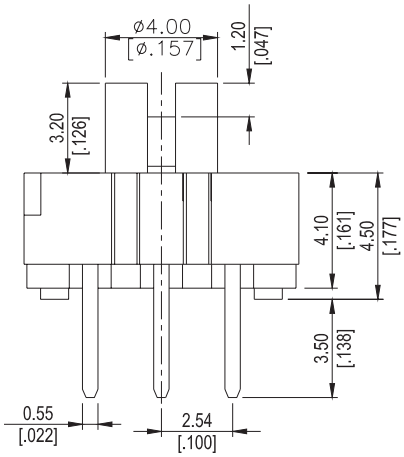
SRS3M-10R

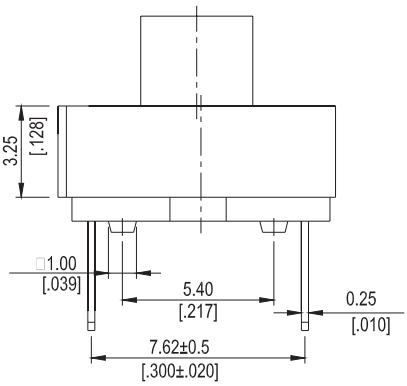


SRS3M-16R

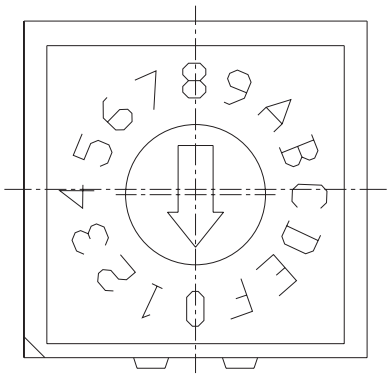


P.C.B LAYOUT

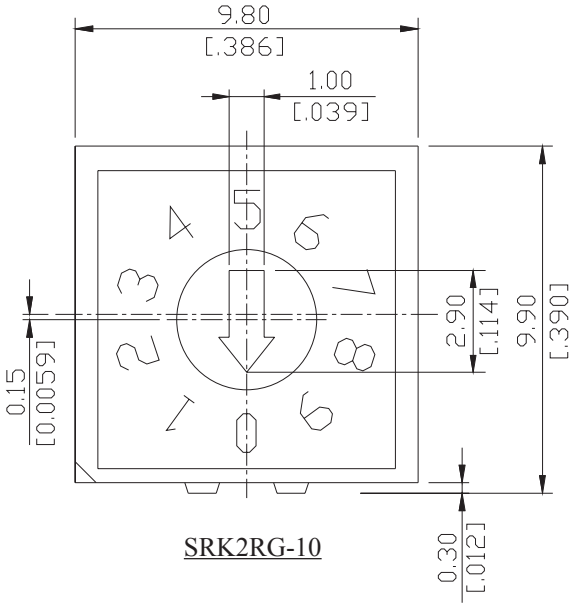




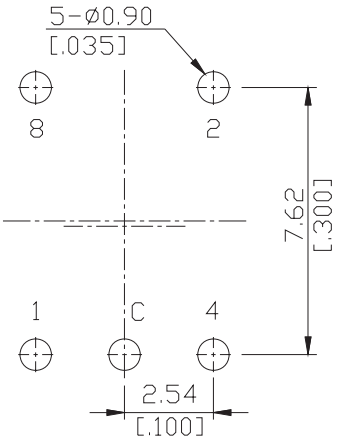
SRK2



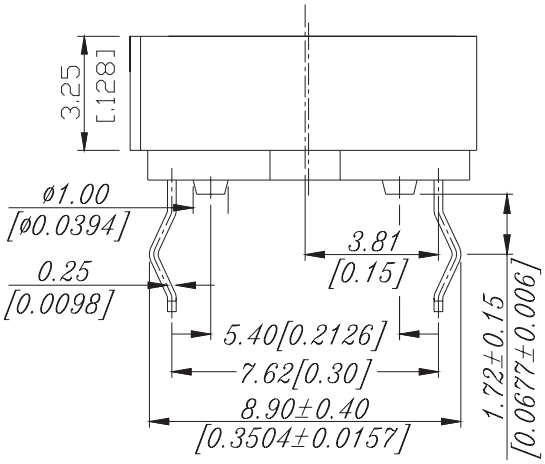
SRK2RG-16

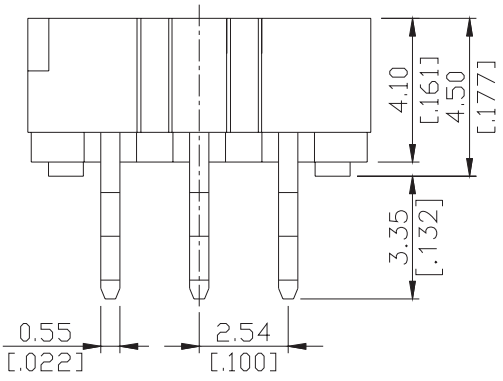


SRK2RG-10



P.C.B LAYOUT





Rotary Switches

SRS, SRR, SRC & SRK Series

Terminals: 4x1, 3x3, 3x2 (9.8 x 9,8mm) and 10, 16 Steps

HOW TO ORDER:

SR □ □ □ - □□ □ □ F- □ □

Rotary Switch

Terminal Type:
S = Straight
R = Right Angle
C = SMD
K = Kink Pin

# of Terminal:
4 = 4 x 1
3 = 3 x 3
2 = 3 x 2

Actuator Type:
R = Recessed Actuator
H = High Actuator 7.3mm
M = Actuator 3.2mm (16 Steps only)

Number of Steps
10 = 10 Steps
16 = 16 Steps

R = Real Codes

Solder Plating:
G = Gold Plated over Nickel

F = Higher Operating Force

Soldering:
R = Lead Free Solderable(RoHS)

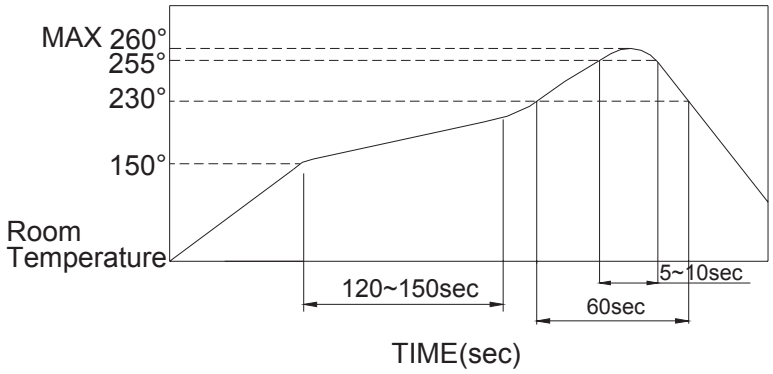
Packaging Style:
B = Tube
T/R = Tape & Reel (for RC only)

○ Real Codes
● Complementary Codes

Type	Position	Code			
		1	2	4	8
○10(H)	0	●	●	●	●
	1	○	●	●	●
	2	●	○	●	●
	3	○	○	●	●
	4	●	●	○	●
	5	○	●	○	●
	6	●	○	○	●
	7	○	○	○	●
	8	●	●	●	○
	9	○	●	●	○
○16(H) ●16HC	A	●	○	●	○
	B	○	○	●	○
	C	●	●	○	○
	D	○	●	○	○
	E	●	○	○	○
	F	○	○	○	○

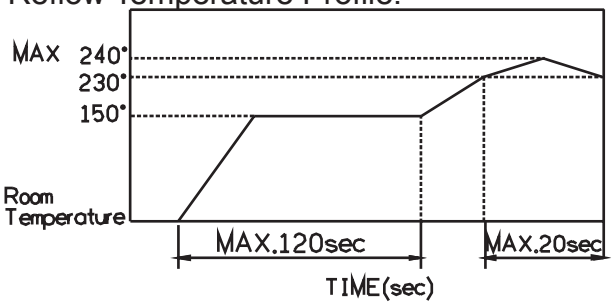
Remark:
○ Contact to C ●= No Contact

LEAD FREE(RoHS) SOLDERING PROCESS:

I T E M	LEAD-FREE SOLDERING CONDITIONS
HAND SOLDERING	350℃±10℃/3sec max
WAVE SOLDERING	Pre-Heat 100℃/60sec 260℃±5℃max/5~10sec
REFLOW SOLDERING	

LEAD SOLDERING PROCESS:

Reflow Temperature Profile:



HAND SOLDERING: Use a soldering iron of 30 watts controlled at (350°C) approximatly max 3 seconds.

WAVE SOLDERING: Recommended Temperature at 500°F(260°C) max 5 seconds (For through hole type).

REFLOW SOLDERING: When applying reflow soldering the peak temperature of the feflow over should be set at 240°C max.