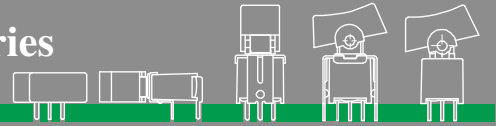


Sealed Sub-Miniature Rocker Switches – PKMS series



SPECIFICATIONS

CONTACT RATING: Dependent upon contact material. See [Contact Plating & Ratings](#).

MECHANICAL LIFE: 30,000 make-and-break cycles.

CONTACT RESISTANCE: 20mΩmax. initial @ 2-4VDC 100mA for both silver and gold plated contacts.

INSULATION RESISTANCE: 1,000 MΩmin.

DIELECTRIC STRENGTH: 1,000 Vrms min. @sea level.

OPERATING TEMPERATURE: -40°C to 85°C.

DEGREE OF PROTECTION: IP67

models available, consult sales representatives.

MATERIALS

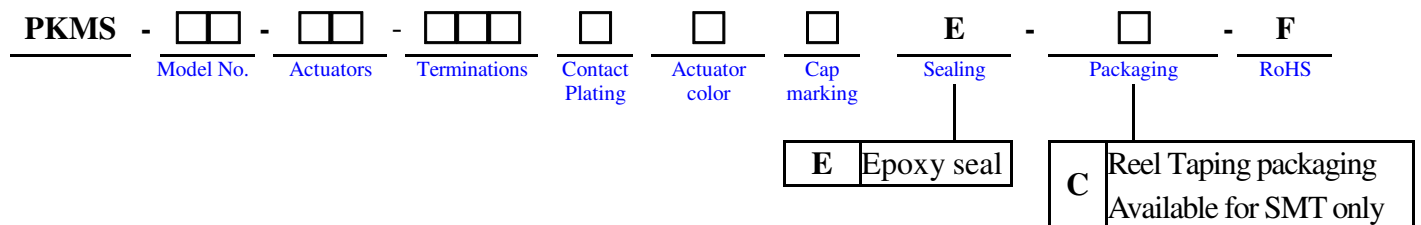
CASE & BUSHING : Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0).

ACTUATOR: Nylon, black std. Internal O-ring seal standard with all actuators.

SWITCH SUPPORT: Brass or steel, tin plated.

TERMINAL/CONTACT: Silver or gold plated copper alloy. See [Contact Plating & Ratings](#).

PART NUMBERING SYSTEM



Model No./ Switching function

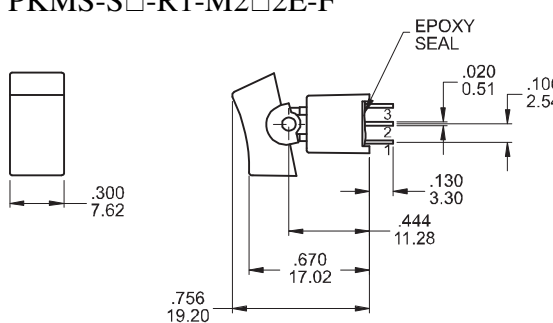
() = Momentary

Unit: Inch/ mm

SPDT				SPDT				SPST			
Model No.	Switching function			Model No.	Switching function			Model No.	Switching function		
S1	On	None	On	S2	On	Off	On	S6	Off	None	On
S3	On	None	(On)	S4	(On)	Off	(On)				
				S5	On	Off	(On)				
Connected terminals	2-3	N/A	2-1	Connected terminals	2-3	Open	2-1	Connected terminals	Open	N/A	3-1
Schematic	2 Comm. 		2 Comm. 	Schematic	2 Comm. 		2 Comm. 	Schematic			

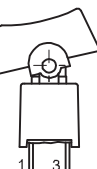
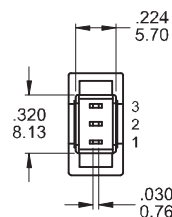
Part No. Shown: PKMS-S-R1-M22E-F

SPDT



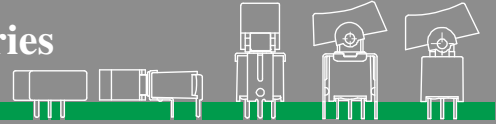
SPST

PKMS-S6 model



Omit 2nd terminal

Sealed Sub-Miniature Rocker Switches – PKMS series



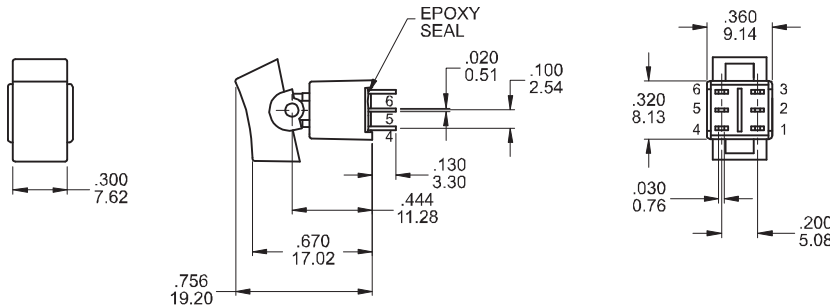
Model No./ Switching function ()= Momentary

Unit: Inch/ mm

DPDT			DPDT				
Model No.	Switching function		Model No.	Switching function			
D1	On	None	On	D2	On	Off	On
D3	On	None	(On)				
Connected terminals	2-3,5-6	N/A	2-1,5-4	Connected terminals	2-3,5-6	Open	2-1,5-4
Schematic				Schematic			

Part No. Shown: PKMS-D□-R1-M2□2E-F

DPDT



Actuators

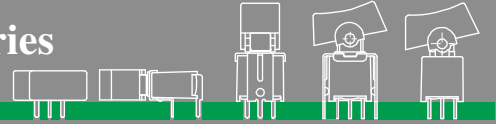
Unit: Inch/ mm

R1	R2	R9
Panel Mounting	Panel Mounting	Panel Mounting

Terminations & Sealing

Unit: Inch/ mm

M1□□□E Solder, With epoxy seal		M2□□□E PCB through hole, with epoxy seal	
SPDT	DPDT	SPDT	DPDT



Terminations & Sealing

Unit: Inch/ mm

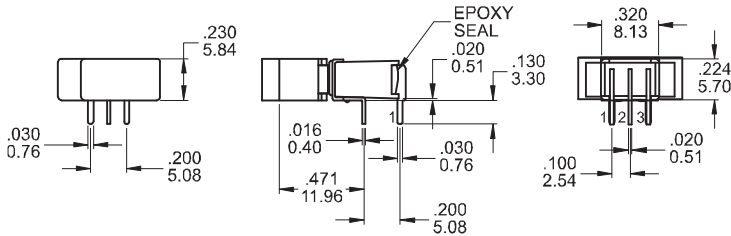
M5□□□□E			
Wire wrap, , with epoxy seal			
SPDT	DPDT	Option code	DIM. "A"
		M51	.614 (15.60)
		M52	.236 (6.00)

M6□ Right angle P.C. Mount

Part No. Shown: PKMS-S□-R2-M6□□2E-F

P. C. B. Layout

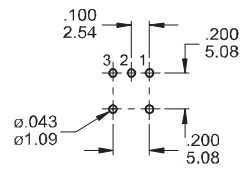
SPDT



Options:



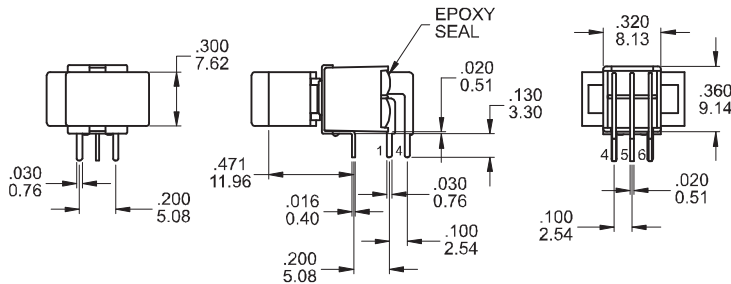
M6N Snap-in



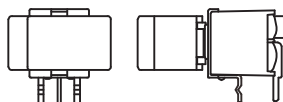
Part No. Shown: PKMS-D□-R1-M6□□2E-F

P. C. B. Layout

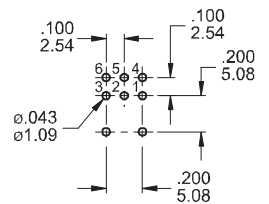
DPDT



Options:



M6N Snap-in

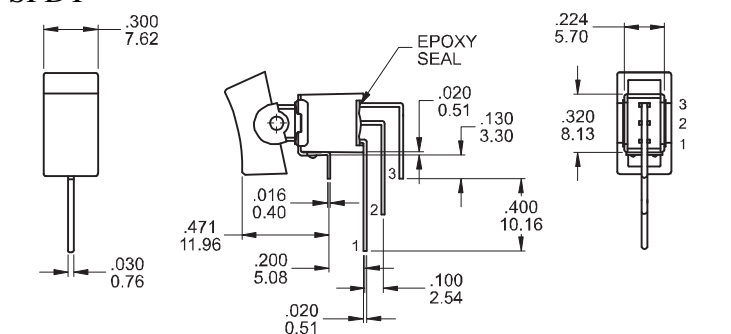


M7□ Vertical right angle P.C. Mount

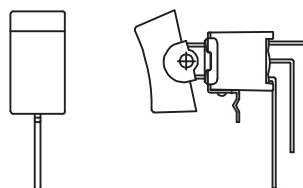
Part No. Shown: PKMS-S□-R1-M7□□2E-F

P. C. B. Layout

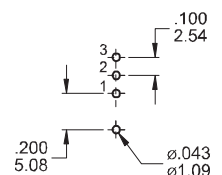
SPDT

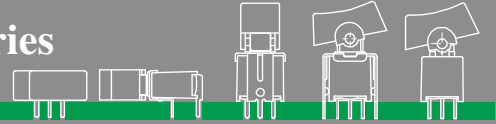


Options:



M7N Snap-in



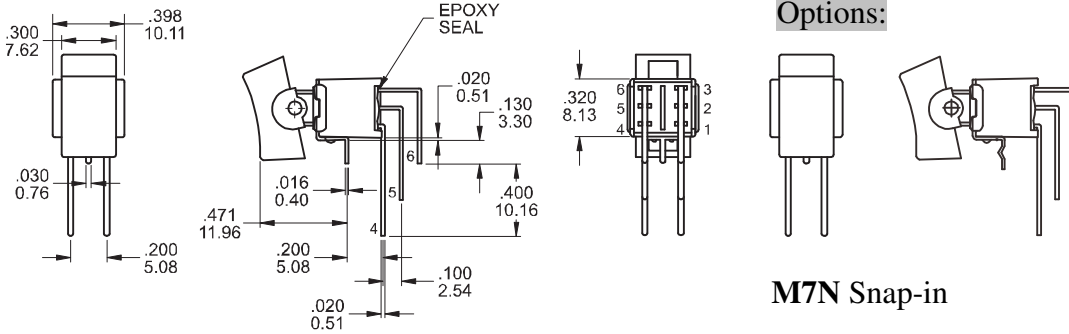


Terminations & Sealing

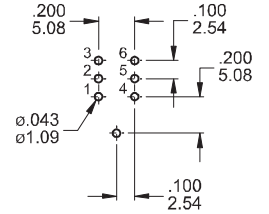
Unit: Inch/ mm

M7 Vertical right angle P.C. Mount

Part No. Shown: PKMS-D-R1-M7-2E-F
DPDT

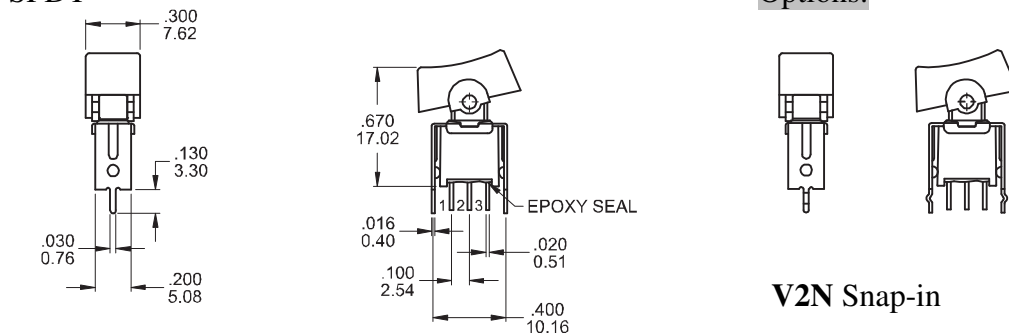


P. C. B. Layout

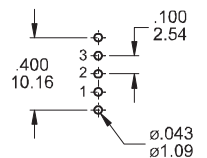


V Vertical bracket P.C. Mount

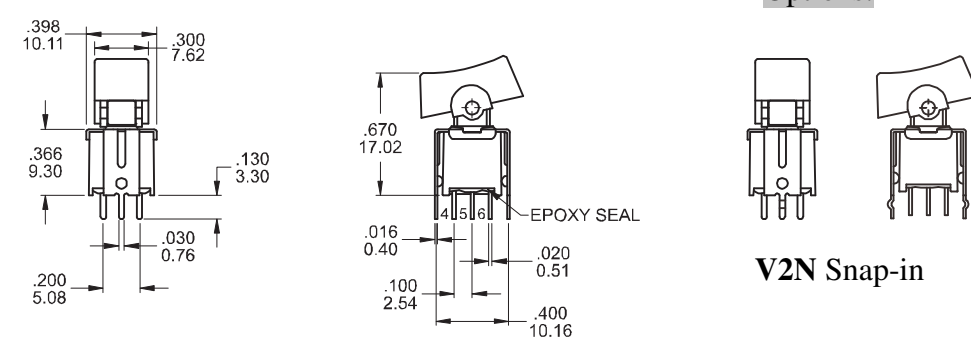
Part No. Shown: PKMS-S-R1-V2-2E-F
SPDT



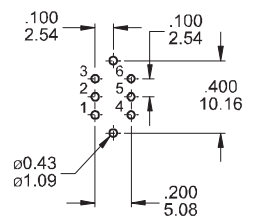
P. C. B. Layout



Part No. Shown: PKMS-D-R1-V2-2E-F
DPDT

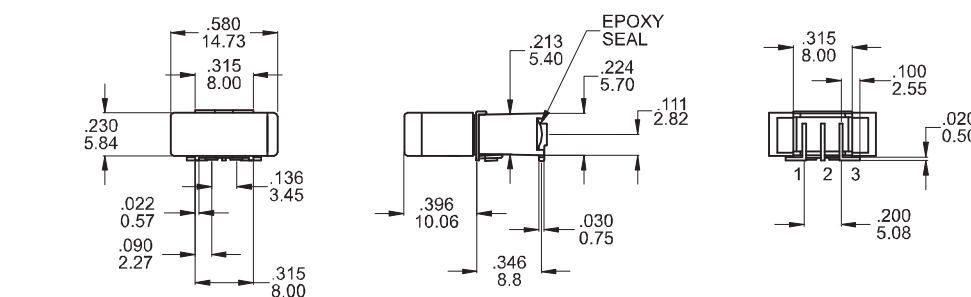


P. C. B. Layout

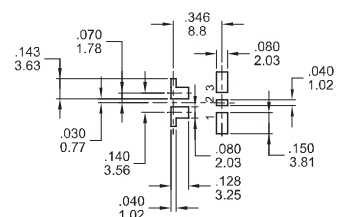


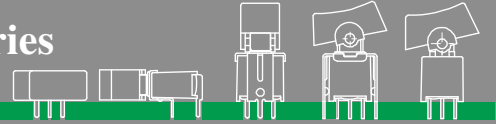
SM Right Angle, Surface Mount

Part No. Shown: PKMS-S-R2-SM-2E-F
SPDT



P. C. B. Layout





Terminations & Sealing

Unit: Inch/ mm

SZ Surface Mount	
Part No. Shown: PKMS-S□-R2-SZ□2E-F	P. C. B. Layout
<p>SPDT</p>	

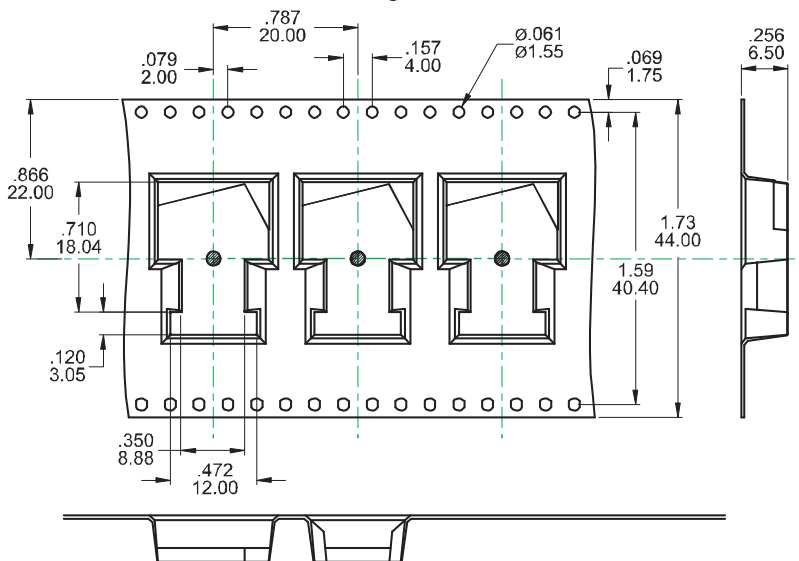
Contact Plating & Ratings

Option code	Contact plating	Terminal plating	Ratings
G	Gold	Gold	0.4 Volt-Amps (VA) max. @ 20V max. (AC or DC)
S	Silver	Gold flash over Silver	3 Amps with resistant load @ 120VAC or 28VDC
A	Gold over silver	Gold over silver	1 Amps with resistant load @ 250VAC

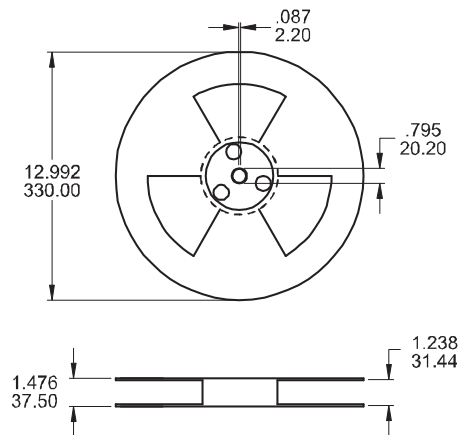
Packaging for Surface Mount(SM · SZ) type only.

Unit: Inch/ mm

Switches available on embossed antistatic tape and reels.
Tape and cover strip are conductive for use near statically sensitive components.

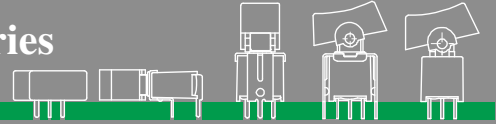


SCALE: 1 : 1



SCALE: 10 : 1

REEL INFORMATION	
QUANTITY PER REEL	450 / pcs



SOLDERING PROCESSES(For PC Mount type)

Manual soldering: Use soldering iron of 30 watts, controlled at 350°C approximately 5 seconds while applying solder.

Wave soldering: Recommended soldering temperature: 270 ± 5°C.

Duration of solder immersion: Max 5 sec. (PCB is 1.6mm in thickness).

REFLOW SOLDERING: (For Surface Mount type)

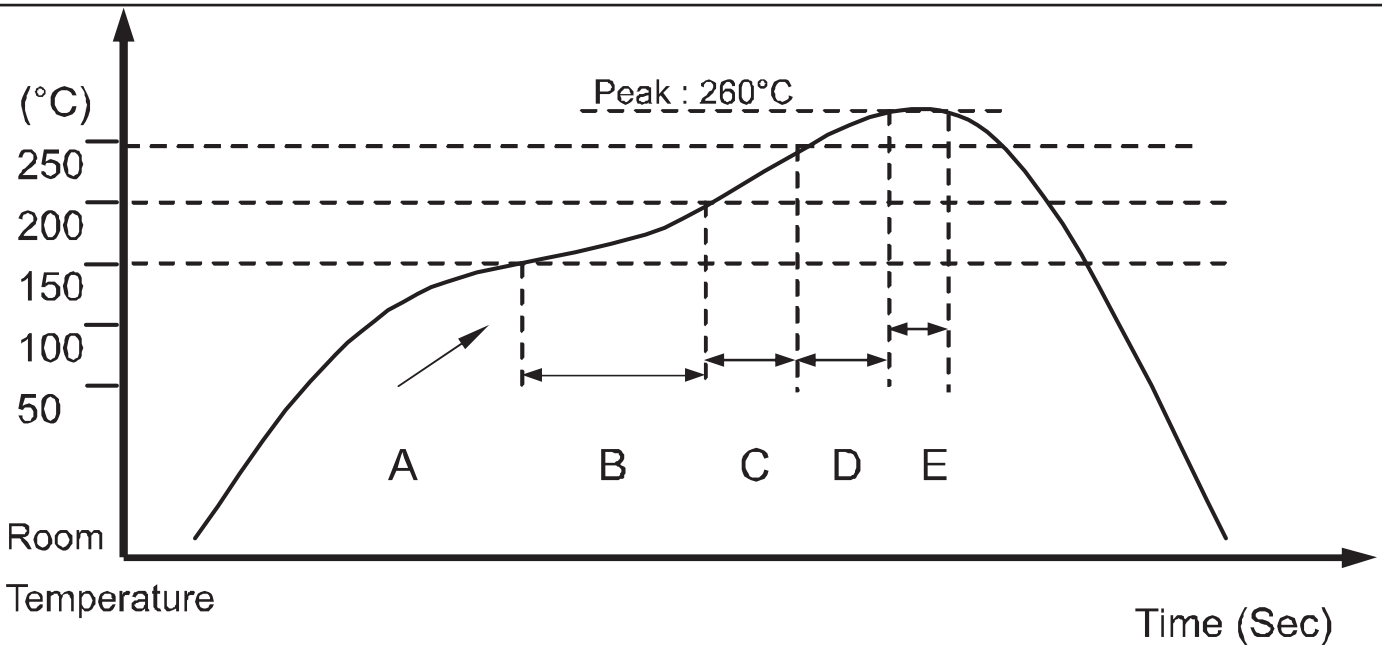
Recommended Soldering Temperature: 260 ± 5°C

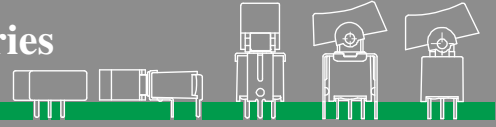
Duration of Solder Immersion: Max 5 sec. (PCB is 1.6mm in thickness)

SOLDERING: Vapor phase & IR-reflow soldering can be applied.

Temperature Profile

Zone	Room Temperature	Time (Sec)
Pre-heat (A)	150°C	Min 120s
Soak (B)	150°C ~ 200°C	Min 150s
Peak (C)	200°C ~ 235°C	Min 30s
Peak (D)	235°C ~ 260°C	Min 40s
Peak (E)	260°C	Max 5s





Frame color & Actuator color

<input type="checkbox"/>	Without
1	White
2	Black(STD.)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

Cap Marking

<input type="checkbox"/>	Without
1	
2	
5	
6	
7	
8	
9	
F	