

GT Series e Switches

Features/Benefits

- *Sealed against solder and cleaning process contaminants*
- *Ultraminiature size, smallest footprint available*
- *Thru-hole and surface mount models*
- *High temperature materials (UL 94V-0)*
- *RoHS compliant and compatible*

Typical Applications

- *Hand-held telecommunications*
- *Small instrumentation*



Specifications

CONTACT RATING: Q 4 VA max. @ 20V AC or DC max.

MECHANICAL & ELECTRICAL LIFE: 40,000 make-and-break cycles at full load.

CONTACT RESISTANCE: Below 50m Ω typ. initial @
2-4 V DC, 100mA.

INSULATION RESISTANCE: $10^9 \Omega \text{ min.}$

DIELECTRIC STRENGTH: 500Vrms min. @ sea level.

OPERATING TEMPERATURE: -30°C to 85°C.

SOLDERABILITY: Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).

PACKAGING: Surface mount switches shipped in anti-static tape and reel packaging per EIA 481-3 see page G-47 for drawings and reel information. Tape and cover strip are conductive for use near statically sensitive components, consult Customer Service Center.

Materials

HOUSING AND BASE: Glass filled nylon 6/6 or 4/6 flame retardant, heat stabilized (UL 94V-0)

ACTUATOR: Glass filled nylon 4/6 flame retardant, heat stabilized (UL 94V-0), with standard internal o-ring seal.

SWITCH SUPPORT: Brass, tin plated.

MOVABLE CONTACTS: Copper alloy, with gold plate over nickel plate.

STATIONARY CONTACTS: Copper alloy, with gold plate over nickel plate.

TERMINALS: Gold.

TERMINAL SEAL: Epoxy. All terminals insert molded.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, consult Customer Service Center.

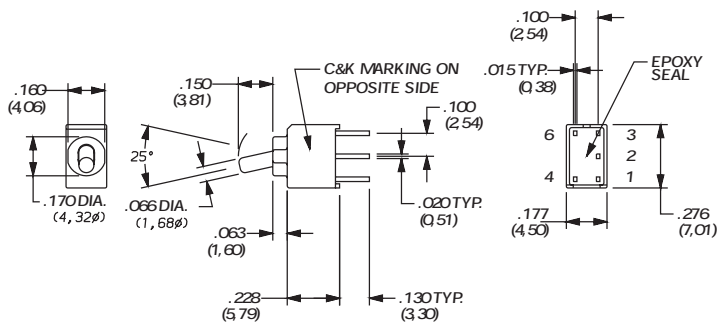
How To Order

Complete part numbers for GT Series Sealed Ultraminiature Toggle Switches are shown on pages G-43 thru G-47.

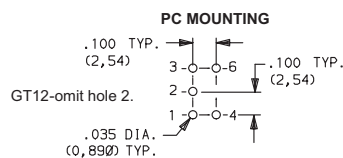


GT11MCBE
SPDT

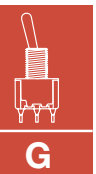
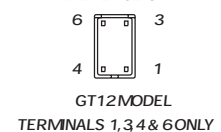
PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT11MCBE GT13MCBE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3	OPEN	2-1
Schematic 			
SPDT	Note: Pins 4 and 6 not connected		
GT12MCBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic 			
SPST	Note: Pins 4 and 6 not connected		



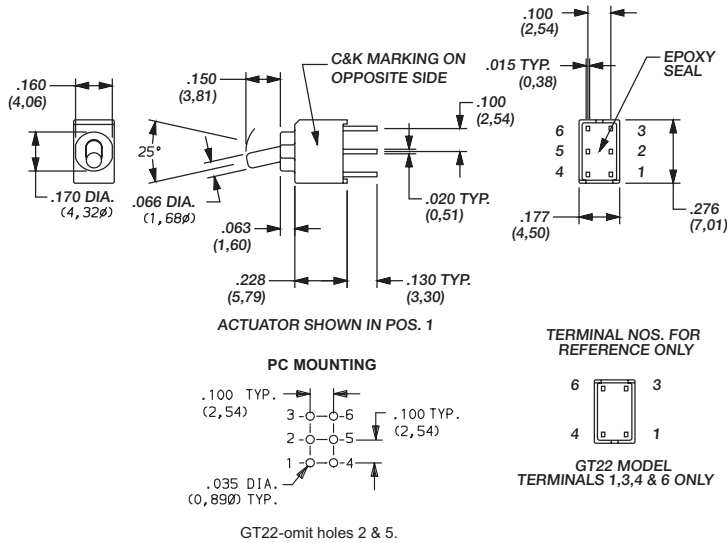
ACTUATOR SHOWN IN POS. 1



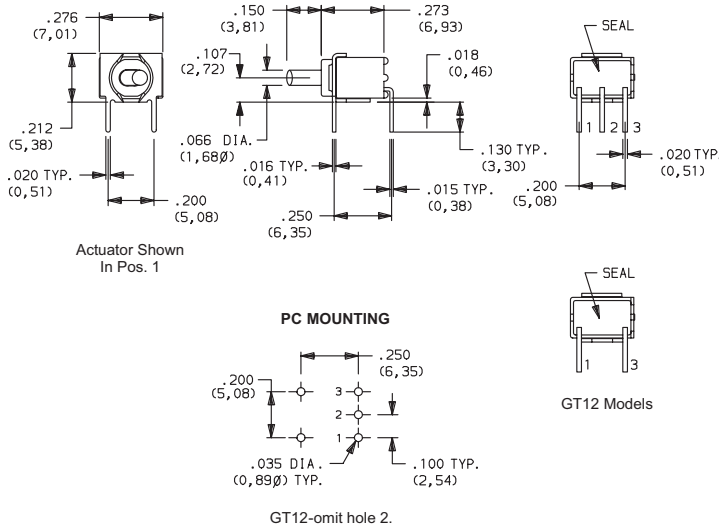
TERMINAL NOS. FOR
REFERENCE ONLY



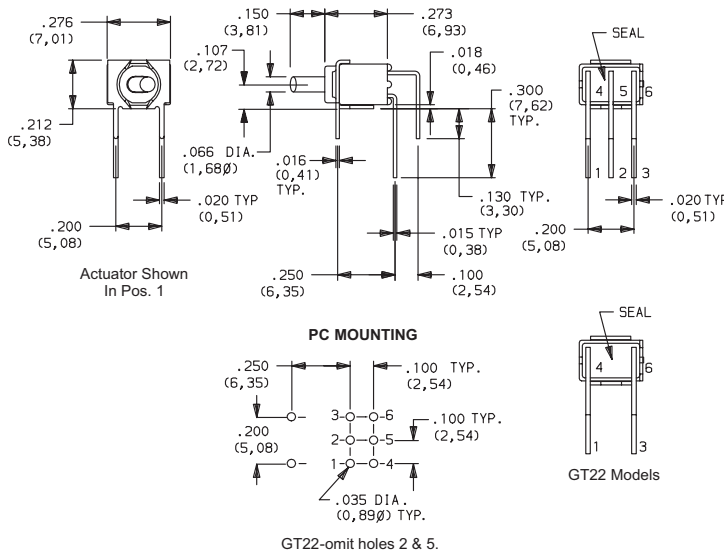
GT Series Sealed Ultraminiature Toggle Switches



PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT 21MCBE	ON	NONE	ON
GT 23MCBE	ON	OFF	ON
Conn. Terms.	2-3 5-6	OPEN	2-1, 5-4
Schematic			
DPDT			
GT 22MCBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
DPST			



PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT 11MABE	ON	NONE	ON
GT 13MABE	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic			
SPDT			
GT 12MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
SPST			



PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT 21MABE	ON	NONE	ON
GT 23MABE	ON	OFF	ON
Conn. Terms.	2-3 5-6	OPEN	2-1, 5-4
Schematic			
DPDT			
GT 22MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic			
DPST			



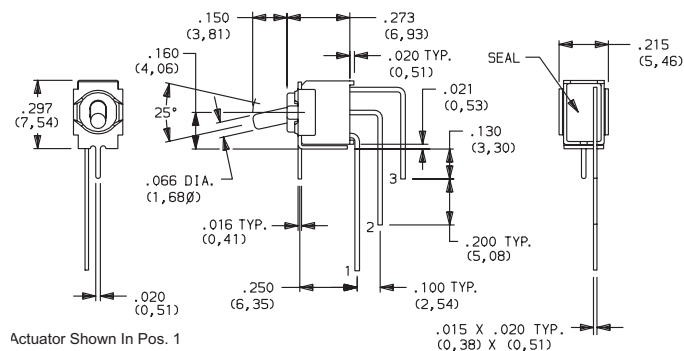
Toggle

C&K

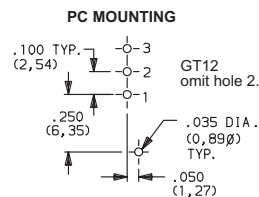


Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

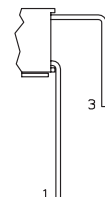
PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
GT11MAVBE GT13MAVBE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3	OPEN	2-1
Schematic			
SPDT			
GT12MAVBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
SPST			



Actuator Shown In Pos. 1



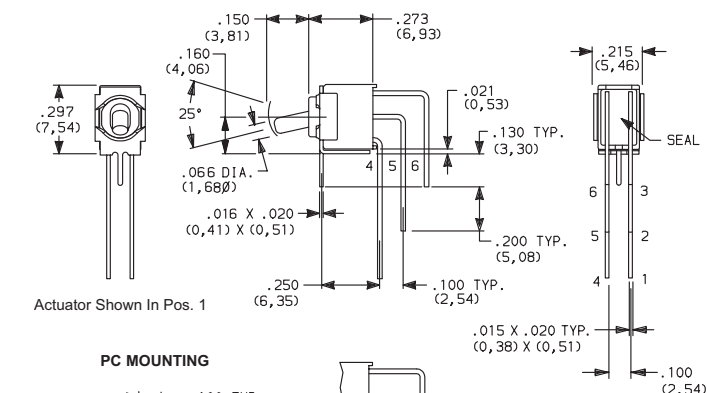
PC MOUNTING



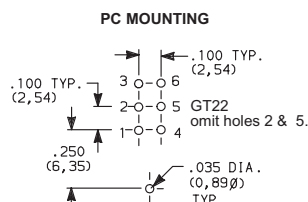
GT12 Models



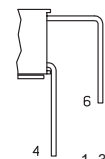
PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
GT 21MAVBE GT 23MAVBE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3 5-6	OPEN	2-1, 5-4
Schematic			
DPDT			
GT 22MAVBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic			
DPST			



Actuator Shown In Pos. 1



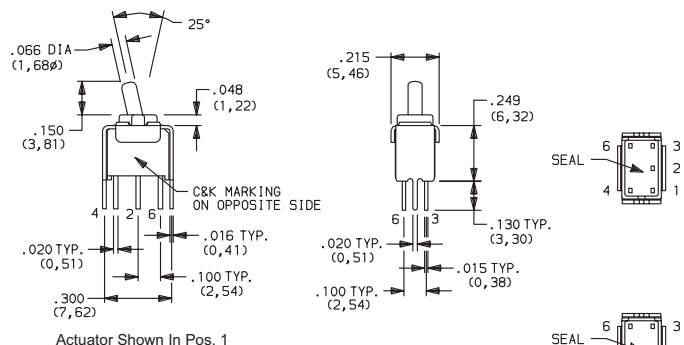
PC MOUNTING



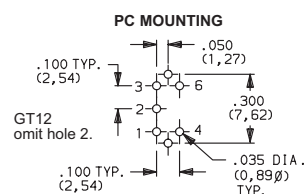
GT22 Models:
1, 3, 4 & 6 terminals only.



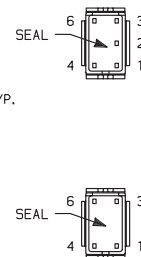
PART NUMBER	SWITCH FUNCTION		
	POS.1	POS. 2	POS. 3
			
GT11M/V3BE	ON	NONE	ON
GT13M/V3BE	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic			
SPDT	Note: Pins 4 and 6 not connected		
GT12M/V3BE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
SPST	Note: Pins 4 and 6 not connected		



Actuator Shown In Pos. 1



PC MOUNTING

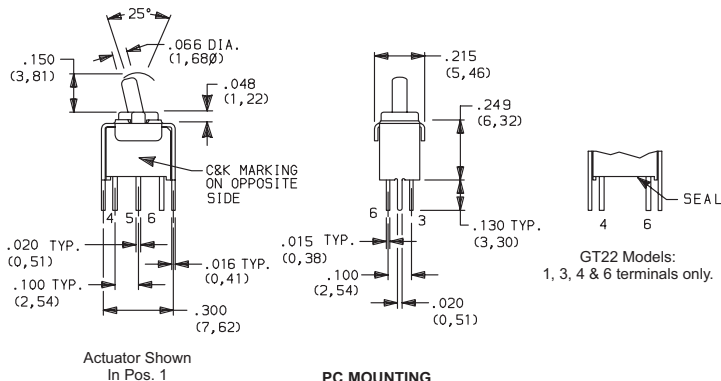


GT12 Models



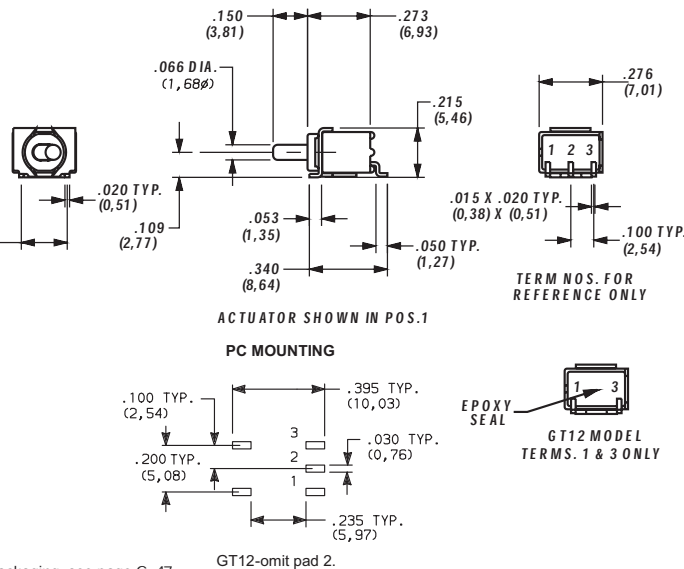
Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

GT Series Sealed Ultraminiature Toggle Switches



PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT21MV3BE GT23MV3BE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3 5-6	OPEN	2-1, 5-4
Schematic			
DPDT			
GT22MV3BE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic			
DPST			

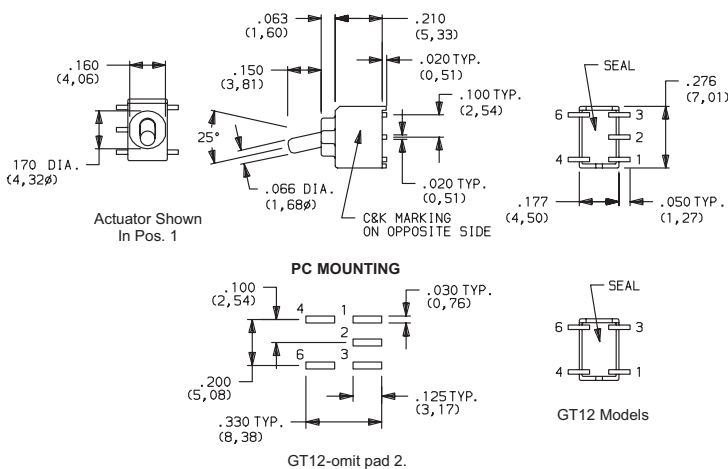
SMT



PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT11MSABETR GT13MSABETR	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3	OPEN	2-1
Schematic			
SPDT			
GT12MSABETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
SPST			

Standard with tape & reel packaging, see page G-47.

SMT



PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT11MSCBETR GT13MSCBETR	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3	OPEN	2-1
Schematic			
SPDT	Note: Pins 4 and 6 not connected		
GT12MSCBETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
SPST	Note: Pins 4 and 6 not connected		

Standard with tape & reel packaging, see page G-47.



Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

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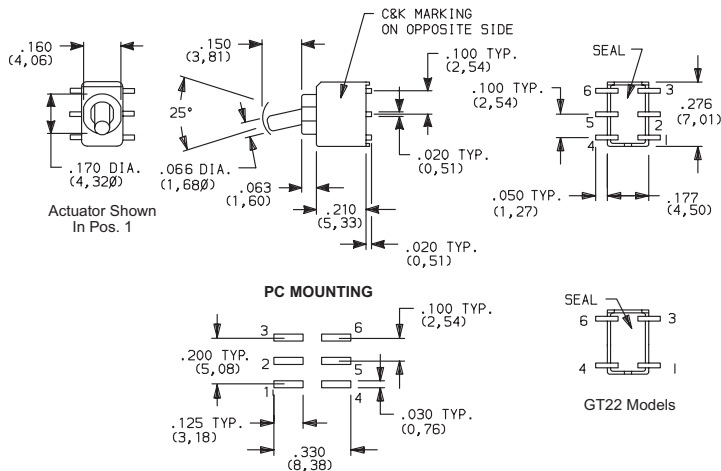
GT Series Sealed Ultraminiature Toggle Switches

SMT



GT21MSCBE
DPDT

PART NUMBER	SWITCH FUNCTION		
	POS. 1	POS. 2	POS. 3
GT21MSCBETR	ON	NONE	ON
GT23MSCBETR	ON	OFF	ON
Conn. Terms.	2-3 5-6	OPEN	2-1, 5-4
Schematic			
DPDT			
GT22MSCBETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic			
DPST			

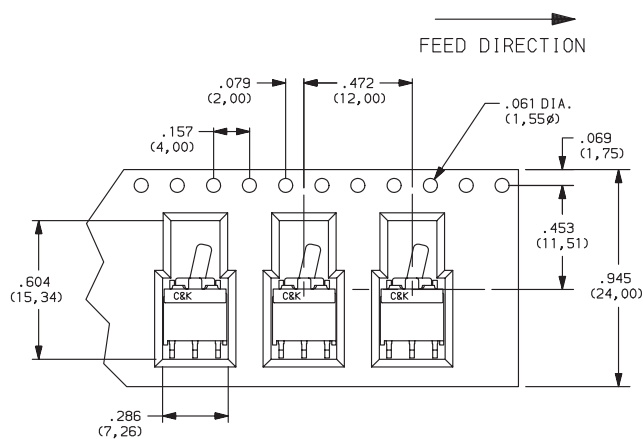


GT22-omit pads 2 & 5.

Standard with tape & reel packaging, see page G-47.

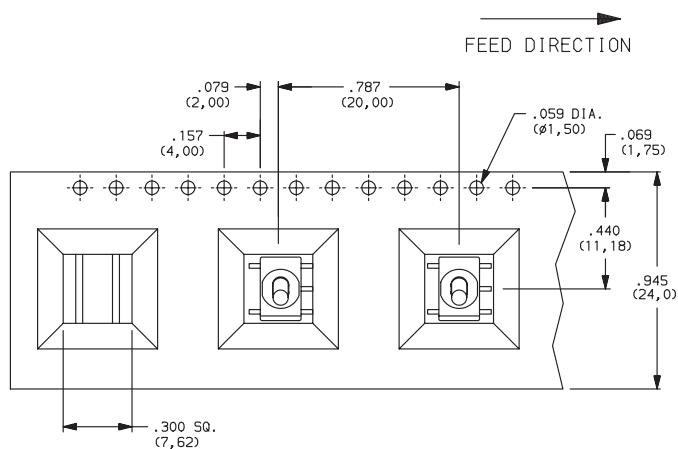
TAPE & REEL

For part numbers GT11MSABE, GT12MSABE, GT13MSABE



REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330.0)
PILOT HOLE	.512 (13.0)
QUANTITY PER REEL	600

For part numbers GT11MSCBE, GT12MSCBE, GT13MSCBE, GT21MSCBE, GT22MSCBE, GT23MSCBE,



REEL INFORMATION	
OUTSIDE DIAMETER	13.00 (330.0)
PILOT HOLE	.512 (13.0)
QUANTITY PER REEL	200

C&K



Third Angle
Projection

Dimensions are shown: Inch (mm)
Specifications and dimensions subject to change

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