GT Series

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: 0.4 VA max. @ 20 V AC or DC max.

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

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

INSULATION RESISTANCE: $10^9 \Omega$ min.

DIELECTRIC STRENGTH: 500 Vrms 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 F-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 4/6, flame retardant, heat stabilized (UL 94V-0).

Sealed Ultraminiature Toggle Switches

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.

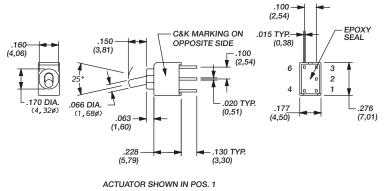
How To Order

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



GT11MCBE SPDT

	SW	TCH FUNC	TION
	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	1
GT11MCBE	ON	NONE	ON
GT13MCBE	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic		● 2 (COM	1)
	1 :	• \•3	
SPDT	Note: Pins	4 and 6 not	connected
GT12MCBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic	•		
	1	• 3	
SPST	Note: Pins	4 and 6 not	connected



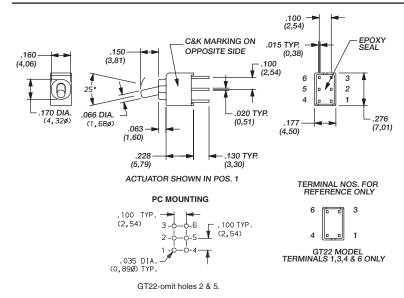
TERMINALS 1,3,4 & 6 ONLY



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



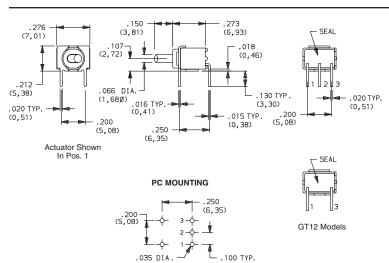
Sealed Ultraminiature Toggle Switches



	SW	ITCH FUNC	TION
	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	1
GT21MCBE	ON	NONE	ON
GT23MCBE	ON	OFF	ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	2 (00	OMM) 5	6
GT22MCBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic	3 1	6	



GT21MCBE **DPDT**



(0.89Ø) TYP.

(5,08)

GT12-omit hole 2.

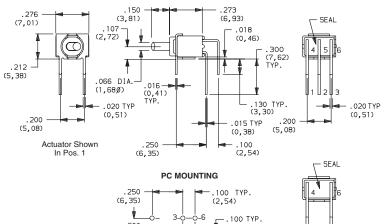
(2,54)

(2,54)

	SW	TCH FUNC	TION
	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	1
GT11MABE	ON	NONE	ON
GT13MABE	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic		€2 (COMM)	
SPDT	1 •	\●3	
GT12MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
	1	3	
SPST			



GT11MABE Horizontal Actuation **SPDT**



.035 DIA. (0,89ø) TYP.

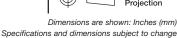
GT22-omit holes 2 & 5.

	SWI	TCH FUNC	TION
	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	1
GT21MABE	ON	NONE	ON
GT23MABE	ON	OFF	ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic	9 2	(COMM) (2 5
DPDT	1 • \	●3 4●	\● 6
GT22MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic		3 /	- 6
DPST	1	• /	/ 4



GT21MABE Horizontal Actuation **DPDT**





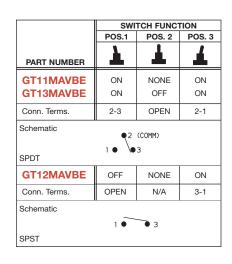


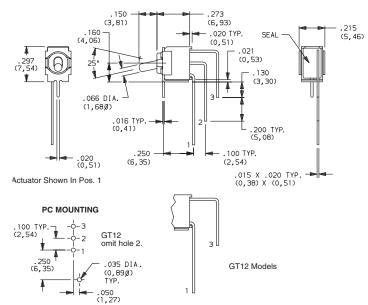
GT22 Models

GT Series Sealed Ultraminiature Toggle Switches



GT11MAVBE Vertical Actuation SPDT



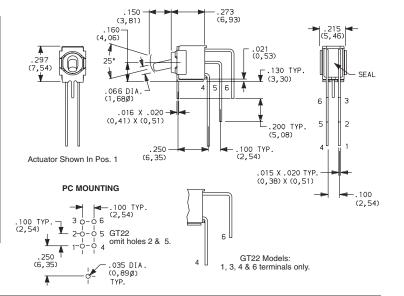




GT21MAVBE Vertical Actuation **DPDT**

	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	4
GT21MAVBE GT23MAVBE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	2 (0	OMM) 5	6
GT22MAVBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic	3 1 • /	/ - -/	4

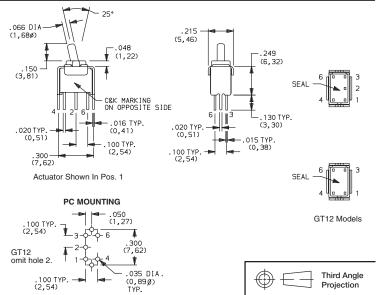
SWITCH FUNCTION





GT11MV3BE SPDT

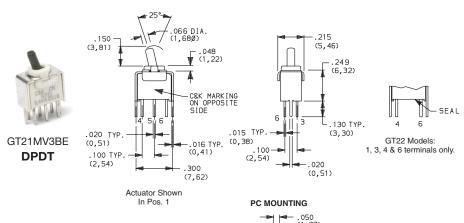
	SWITCH FUNCTION			
	POS.1	POS.1 POS. 2 POS. 3		
PART NUMBER	7	4	4	
GT11MV3BE	ON	NONE	ON	
GT13MV3BE	ON	OFF	ON	
Conn. Terms.	2-3	OPEN	2-1	
Schematic		2 (COMM)		
	1 •	\●3		
SPDT	Note: Pins	4 and 6 not	connected	
GT12MV3BE	OFF	NONE	ON	
Conn. Terms.	OPEN	N/A	3-1	
Schematic				
	1 •	3		
SPST	Note: Pins	4 and 6 not	connected	



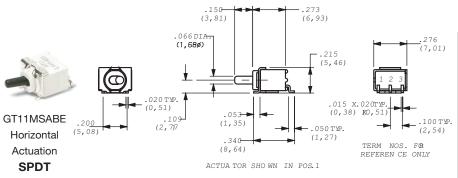


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

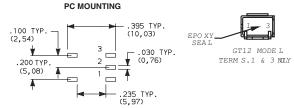
Sealed Ultraminiature Toggle Switches



	SWIT	CH FUNC	TION
	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	1
GT21MV3BE GT23MV3BE	ON ON	NONE OFF	ON ON
Conn. Terms.	2-3, 5-6	OPEN	2-1, 5-4
Schematic DPDT	1 • 2 (COMM) 4	5 \• 6
GT22MV3BE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4
Schematic DPST	3 1 • /	%/	6 4



	SWIT	CH FUNC	TION
	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	1
GT11MSABETR	ON	NONE	ON
GT13MSABETR	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic	\	COMM)	
SPDT	1 • \•3		
GT12MSABETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
	1	3	
SPST			

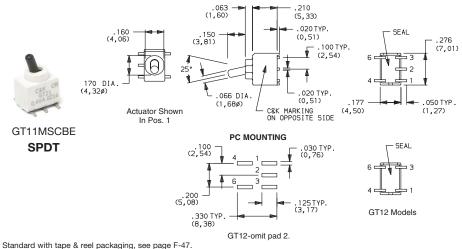


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0-5 (7,62) \ .035 DIA. (0,89ø) TYP.

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

GT12-omit pad 2.



	SWIT	CH FUNC	TION
	POS.1	POS. 2	POS. 3
PART NUMBER	7	1	1
GT11MSCBETR	ON	NONE	ON
GT13MSCBETR	ON	OFF	ON
Conn. Terms.	2-3	OPEN	2-1
Schematic	Q 2 (C0	MM)	
	. №3		
SPDT No	te: Pins 4	and 6 not	connected
GT12MSCBETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1
Schematic			
	1 • 3	3	
SPST No	te: Pins 4	and 6 not o	connected



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

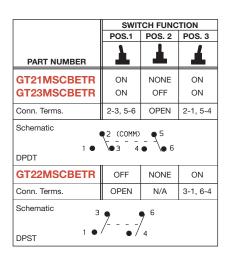


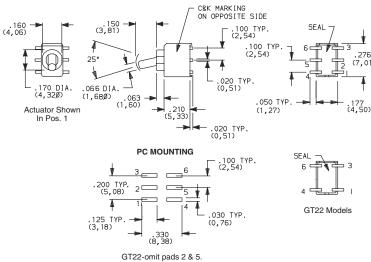
25 Sep 20

Sealed Ultraminiature Toggle Switches



GT21MSCBE **DPDT**

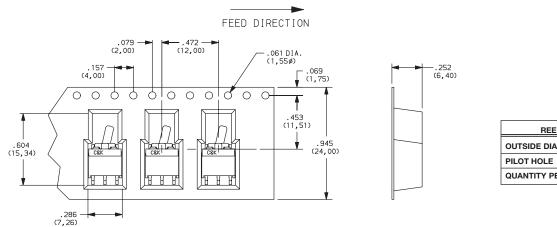




Standard with tape & reel packaging

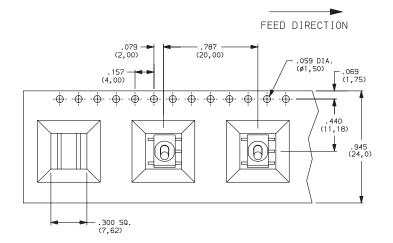
TAPE & REEL

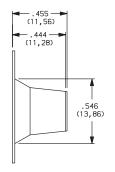
For part numbers GT11MSABE, GT12MSABE, GT13MSABE



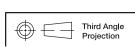
REEL INFORM	ATION
OUTSIDE DIAMETER	13.00 (330,0)
PILOT HOLE	.512 (13,0)
QUANTITY PER REEL	600

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





3.00 (330,0)
.512 (13,0)
200



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





