

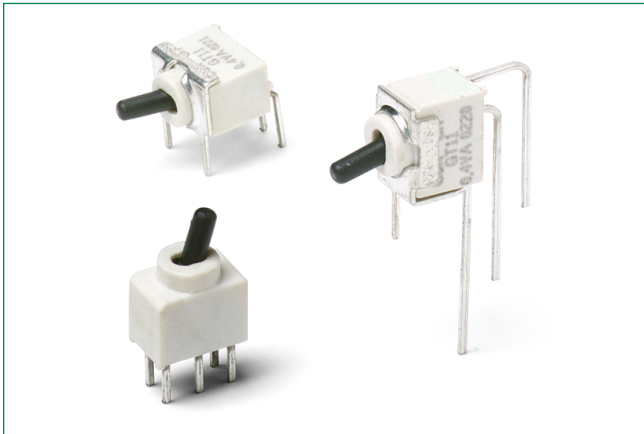


**THE DATASHEET OF  
GT11MV3BE**



# GT Series

## Sealed Ultraminiature Toggle Switches



### Specifications

<b>Contact Rating</b>	0.4 VA max. @ 20 V AC or DC max.
<b>Mechanical &amp; Electrical Life</b>	40,000 make-and-break cycles at full load.
<b>Contact Resistance</b>	Below 50 m $\Omega$ typ. initial @ 2-4 V DC, 100 mA.
<b>Insulation Resistance</b>	10 <sup>9</sup> $\Omega$ min.
<b>Dielectric Strength</b>	500 Vrms min. @ sea level.
<b>Operating Temperature</b>	-30°C to 85°C
<b>Solderability</b>	Per MIL-STD-202F method 208D, or EIA RS-186E method 9 (1 hour steam aging).
<b>Packaging</b>	Surface mount switches shipped in anti-static tape and reel packaging per EIA 481-3. Tape and cover strip are conductive for use near statically sensitive components, consult Customer Service Center.

### Description

GT series sealed ultraminiature toggle switches are used most often in hand-held telecommunications devices or those applications that require small instrumentation. The GT series are ultraminiature switches – featuring the smallest footprint available in the industry. GT switches are built using high-temperature materials (UL 94V-0) and are sealed against solder and cleaning process contaminants – ensuring they will last when used in harsh environments.

### 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

### Applications

- Hand-held telecommunications
- Small instrumentation

### Materials

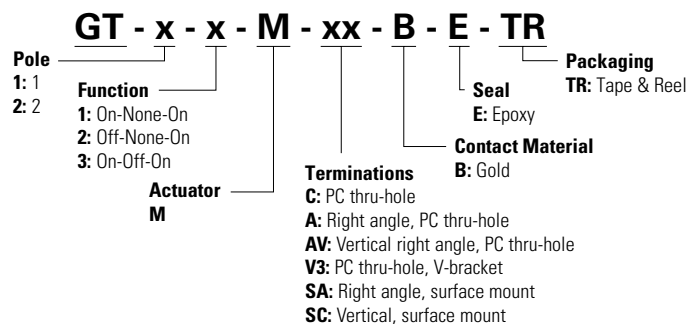
<b>Housing &amp; Base</b>	Glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0).
<b>Actuator</b>	Glass filled nylon 4/6, flame retardant, heat stabilized (UL 94V-0), with standard internal o-ring seal.
<b>Switch Support</b>	Brass, tin plated.
<b>Movable Contacts</b>	Copper alloy, with gold plate over nickel plate.
<b>Stationary Contacts</b>	Copper alloy, with gold plate over nickel plate.
<b>Terminals</b>	Gold
<b>Terminal Seal</b>	Epoxy. All terminals insert molded.

#### Notes:

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

### Ordering Number

Our easy build-a-switch concept allows you to mix and match options to create the switch you need. To order, select desired option from each category and place it in the appropriate box.



# GT Series

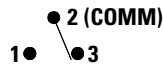
## Sealed Ultraminiature Toggle Switches



### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT11MCBE	ON	NONE	ON
GT13MCBE	ON	OFF	ON
Conn. Terms	2-3	OPEN	2-1

**Schematic**

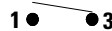


**SPDT**

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

### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT21MCBE	ON	NONE	ON
GT23MCBE	ON	OFF	ON
Conn. Terms	2-3, 5-6	OPEN	2-1, 5-4

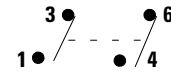
**Schematic**



**DPDT**

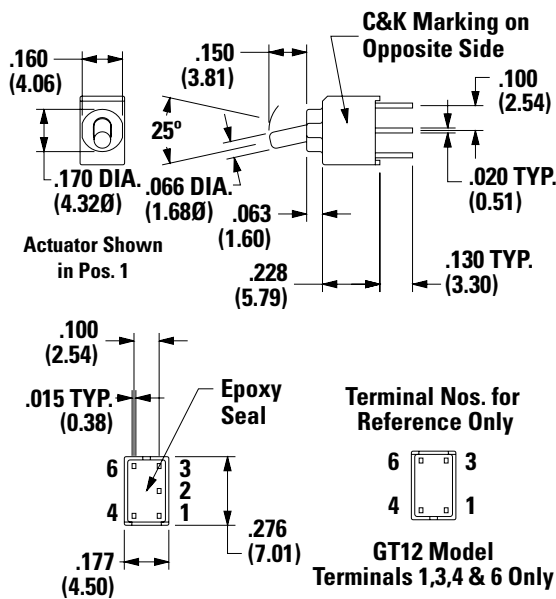
GT22MCBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4

**Schematic**

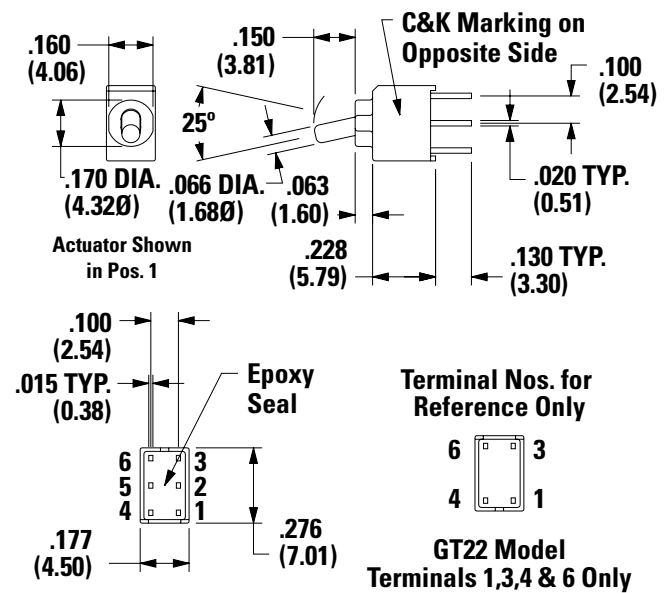


**DPST**

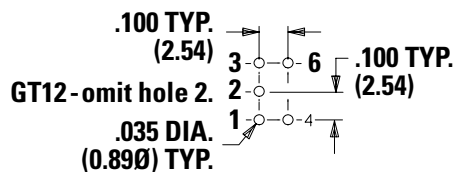
### GT11MCBE SPDT



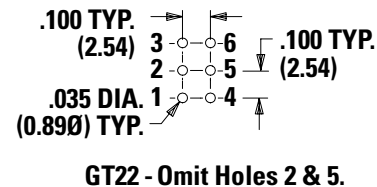
### GT21MCBE DPDT



### PC Mounting



### PC Mounting



# GT Series

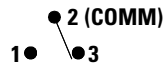
## Sealed Ultraminiature Toggle Switches



### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT11MABE	ON	NONE	ON
GT13MABE		OFF	
Conn. Terms	2-3	OPEN	2-1

Schematic



SPDT

GT12MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1

Schematic



SPST

### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT21MABE	ON	NONE	ON
GT23MABE		OFF	
Conn. Terms	2-3, 5-6	OPEN	2-1, 5-4

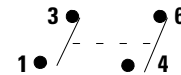
Schematic



DPDT

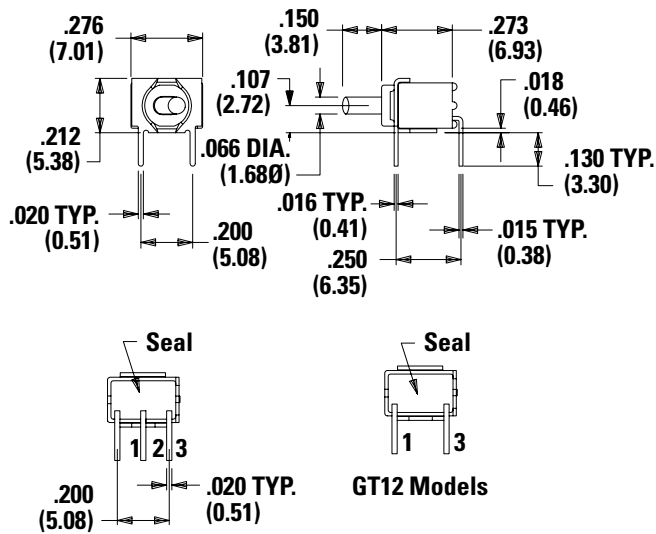
GT22MABE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4

Schematic

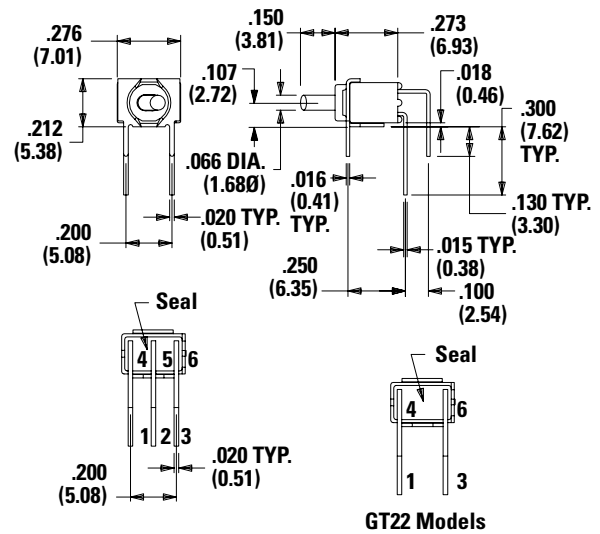


DPST

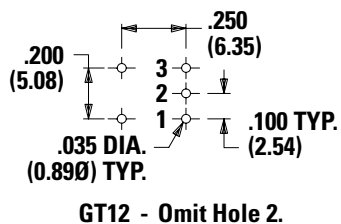
### GT11MABE Horizontal Actuation SPDT



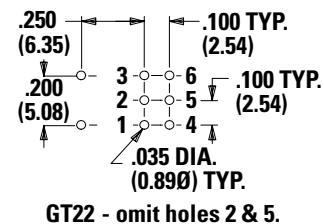
### GT21MABE Horizontal Actuation DPDT



### PC Mounting



### PC Mounting



# GT Series

## Sealed Ultraminiature Toggle Switches



### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT11MAVBE	ON	NONE	ON
GT13MAVBE		OFF	
Conn. Terms	2-3	OPEN	2-1

Schematic

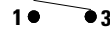


SPDT

Note: Pins 4 and 6 not connected

GT12MAVBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1

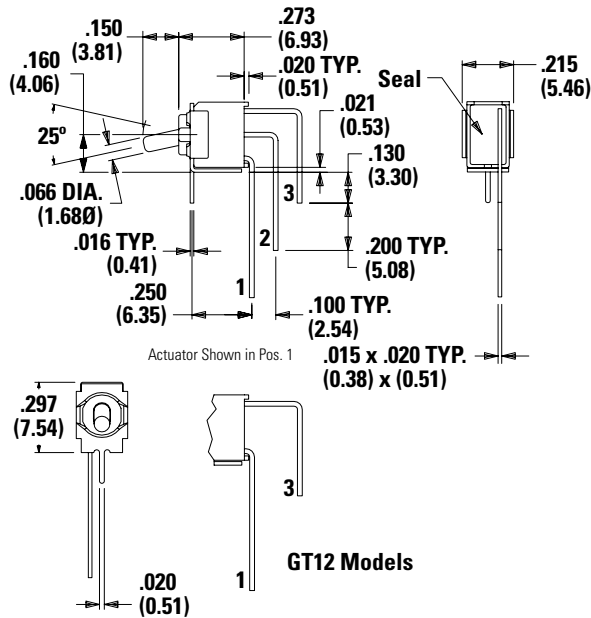
Schematic



SPST

Note: Pins 4 and 6 not connected

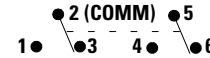
### GT11MAVBE Vertical Actuation SPDT



### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT21MAVBE	ON	NONE	ON
GT23MAVBE		OFF	
Conn. Terms	2-3, 5-6	OPEN	2-1, 5-4

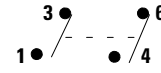
Schematic



DPDT

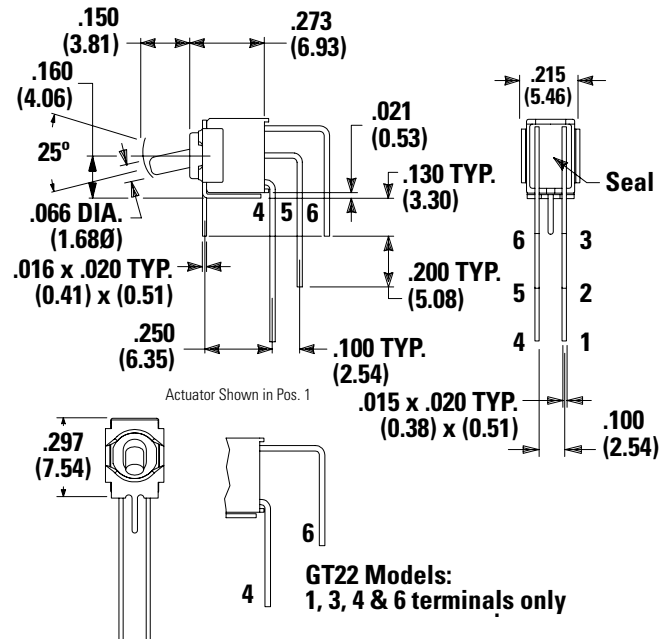
GT22MAVBE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4

Schematic

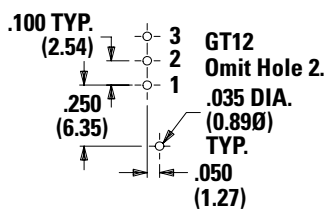


DPST

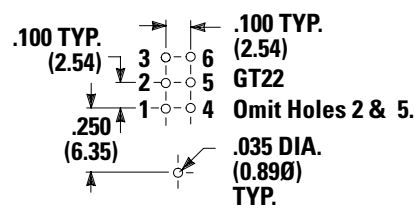
### GT21MAVBE Vertical Actuation DPDT



### PC Mounting



### PC Mounting



# GT Series

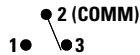
## Sealed Ultraminiature Toggle Switches



### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT11MV3BE	ON	NONE	ON
GT13MVBE	ON	OFF	ON
Conn. Terms	2-3	OPEN	2-1

Schematic



SPDT

Note: Pins 4 and 6 not connected

GT12MV3BE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1

Schematic



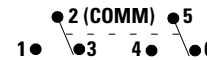
SPST

Note: Pins 4 and 6 not connected

### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT21MV3BE	ON	NONE	ON
GT23MV3BE	ON	OFF	ON
Conn. Terms	2-3, 5-6	OPEN	2-1, 5-4

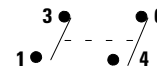
Schematic



DPDT

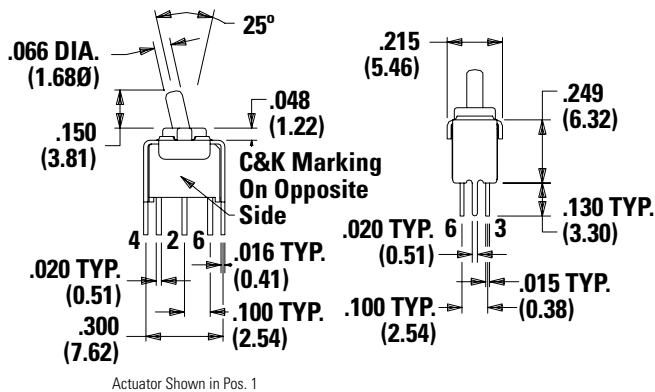
GT22MV3BE	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4

Schematic



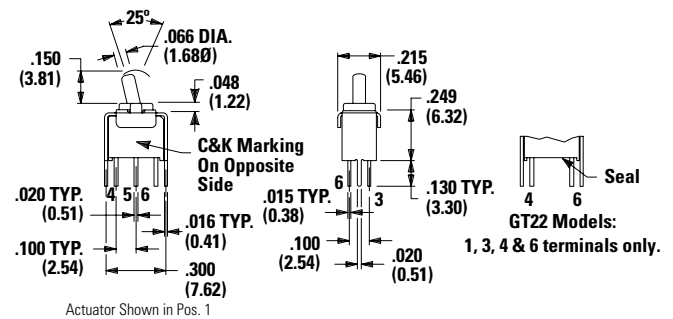
DPST

### GT11MV3BE SPDT

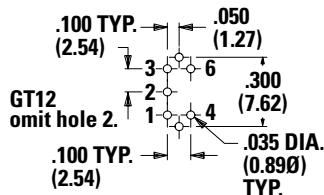


GT12 Models

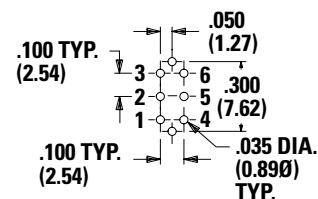
### GT21MV3BE DPDT



### PC Mounting



### PC Mounting



# GT Series

## Sealed Ultraminiature Toggle Switches



### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT11MSABETR	ON	NONE	ON
GT13MSABETR		OFF	
Conn. Terms	2-3	OPEN	2-1

Schematic



SPDT

Part Number	POS. 1	POS. 2	POS. 3
GT12MSABETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1

Schematic

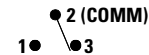


SPST

### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT11MSCBETR	ON	NONE	ON
GT13MSCBETR		OFF	
Conn. Terms	2-3	OPEN	2-1

Schematic



SPDT

Note: Pins 4 and 6 not connected

Part Number	POS. 1	POS. 2	POS. 3
GT12MSCBETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1

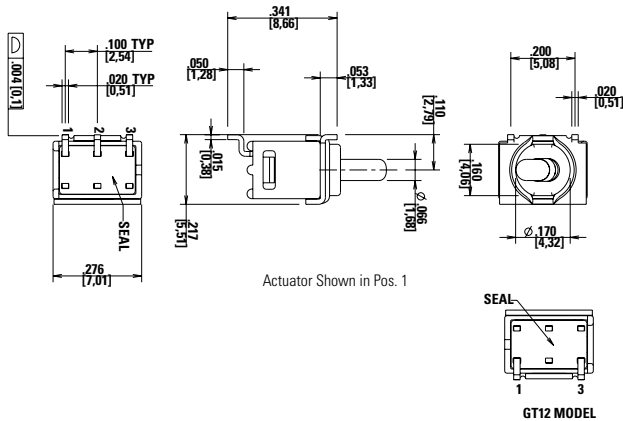
Schematic



SPST

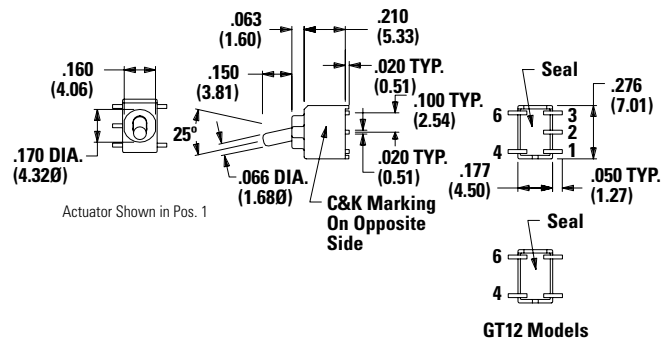
Note: Pins 4 and 6 not connected

### GT11MSABE Horizontal Actuation SPDT



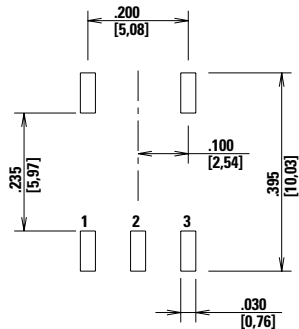
Standard with tape & reel packaging, see page 7.

### GT11MSCBE SPDT



Standard with tape & reel packaging, see page 8.

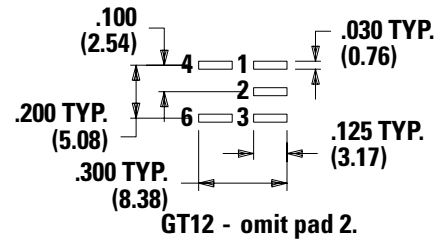
### PC Mounting



### PC MOUNTING

GT12 MODELS:  
OMIT PAD 5

### PC Mounting



# GT Series

## Sealed Ultraminiature Toggle Switches



### Switch Function

Part Number	POS. 1	POS. 2	POS. 3
GT21MSCBETR	ON	NONE	ON
GT23MSCBETR		OFF	ON
Conn. Terms	2-3, 5-6	OPEN	2-1, 5-4

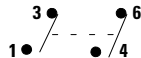
**Schematic**



**DPDT**

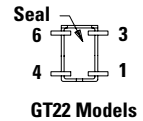
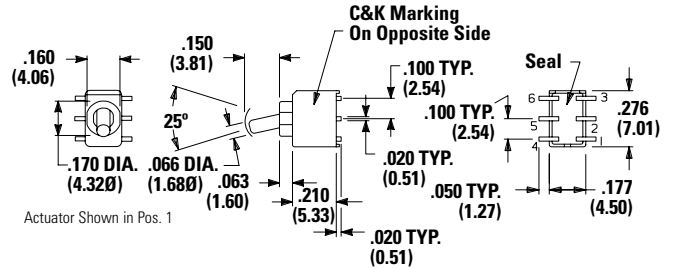
GT22MSCBETR	OFF	NONE	ON
Conn. Terms.	OPEN	N/A	3-1, 6-4

**Schematic**

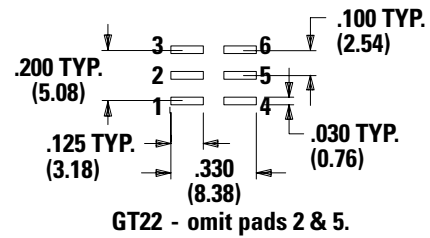


**DPST**

### GT21MSCBE DPDT



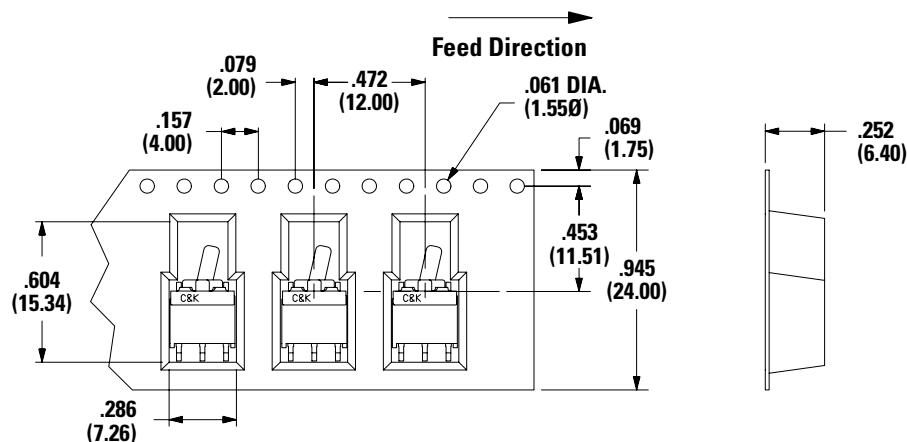
### PC Mounting



Standard with tape & reel packaging.

### Tape & Reel

For part numbers GT11MSABE, GT12MSABE, GT13MSABE



### Reel Information

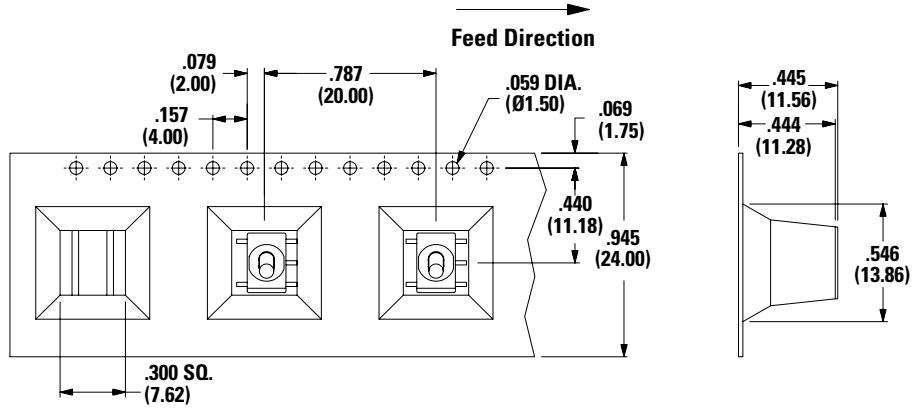
Outside Diameter	13.00 (330.0)
Pilot Hole	0.512 (13.0)
Quantity per Reel	600

# GT Series

## Sealed Ultraminiature Toggle Switches



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



### Reel Information

Outside Diameter	13.00 (330.0)
Pilot Hole	0.512 (13.0)
Quantity per Reel	200

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 [C&K Components](#) Information

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