GP Series Sealed Ultraminiature Pushbutton Switches

Features/Benefits

- Ultraminiature design saves space
- Process compatible, withstands most soldering and washing processes
- Thru-hole and surface mount models available
- Sealed construction—internal o-ring and epoxy base

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

CONTACT RESISTANCE: Below 50 mQ typ. initial @

DIELECTRIC STRENGTH: 500 Vrms min. @ sea level.

SOLDERABILITY: Per MIL-STD-202F method 208D, or

EIA RS-186E method 9 (1 hour steam aging).

DEGREE OF PROTECTION: IP57; Protection against harmful dust

PACKAGING: Surface mount switches standard in anti-static tape

deposit, full-scale voltage protection, temporary immersion.

and reel packaging per EIA 481-3, see page A-80 for drawings and reel information. Thru-Hole parts are shipped in trays.

MECHANICAL & ELECTRICAL LIFE: 40,000 make-and-break

RoHS compliant

cycles at full load.

2-4 V DC, 100 mA.

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

OPERATING TEMPERATURE: -40°C to 85°C.

All models are RoHS compliant and compliant.

Typical Applications

- Telecommunications and network equipment
- Computers and peripheral products
- Instrumentation
- Medical Applications



Pushbuttor

Specifications

Materials

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

SWITCH SUPPORT: Brass, tin plated.

- MOVABLE CONTACT: Copper alloy, with gold plate over nickel plate.
- STATIONARY CONTACTS Copper alloy, with gold plate over nickel plate.
- TERMINALS: Copper alloy, with gold flash over nickel plate.

TERMINAL SEAL: Epoxy/Urethane. All terminals insert molded.

NOTE: Any models supplied with B contact material are RoHS compliant and compatible.

NOTE: Materials listed above are general specifications. Specifications available for specific and custom switches, consult Customer Service Center.

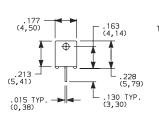
CAUTION: PC mounting layouts and pads as shown are designed to be compatible with the latest equipment and reflow techniques. Care should be taken in the design and location of PC lands to suit individual needs. Orientation relative to reflow direction may significantly impact solder joint integrity.

How To Order

Complete part numbers for GP Series Sealed Ultraminiature Pushbutton Switches are shown on pages A-78 thru A-80.

	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER			SCHEMATIC
GP11MCBE	OFF	MOM.	1 • • 3
Conn. Terms.	OPEN	1-3	SPST
GP12MCBE	ON	MOM.	P 2 (COMM)
Conn. Terms	2-1	2-3	NC 1 SPDT

MOM. = Momentary

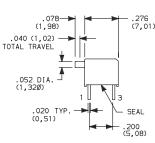


PC MOUNTING

GP11- omit center hole.

035 DIA

(0,890)



Terminal nos. for reference only





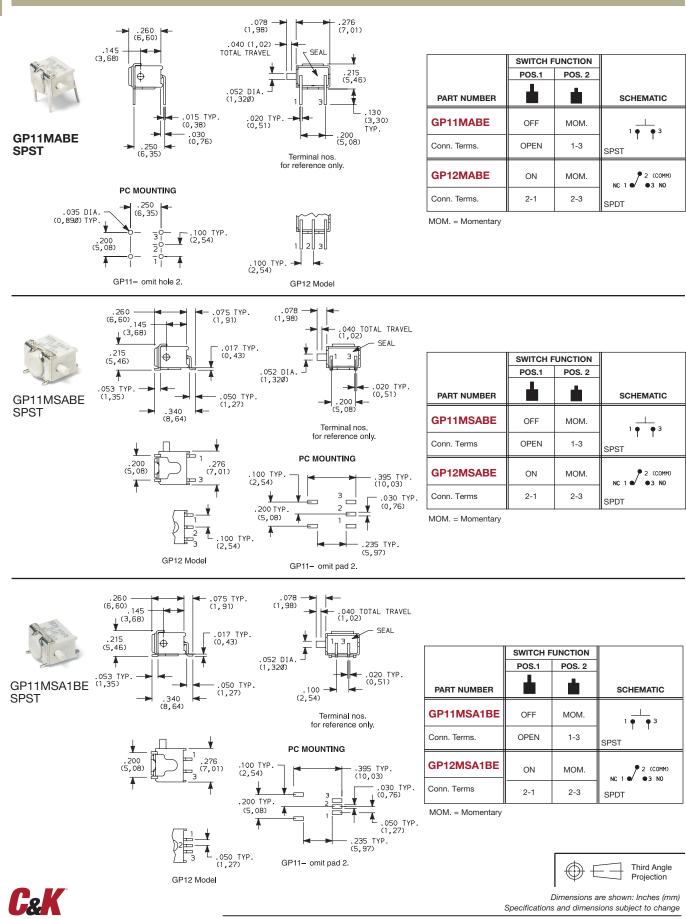
GP11MCBE

SPST

100 TYP.

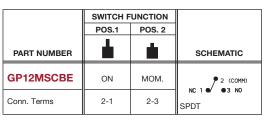
(2.54)

GP Series Sealed Ultraminiature Pushbutton Switches



GP Series **Sealed Ultraminiature Pushbutton Switches**

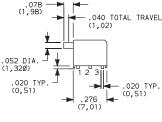
.050 TYP (1,27)



NOTE: Recommended for infrequent use applications only

MOM. = Momentary



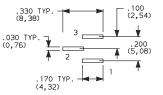


Terminal nos for reference only.



GP12MSCBE

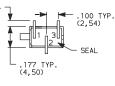
PC MOUNTING



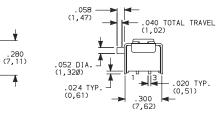
.215 (5,46)

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.168 (4,27)



For increased switch mounting strength, order, SV1 termination style with support bracket (see below).

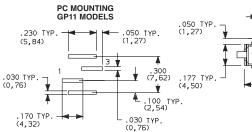




GP11MSV1BE SPST

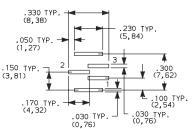
	SWITCH FUNCTION		
	POS.1	POS. 2	
PART NUMBER			SCHEMATIC
GP11MSV1BE	OFF	MOM.	1 • • 3
Conn. Terms.	OPEN	1-3	SPST
GP12MSV1BE	ON	MOM.	2 (COMM)
Conn. Terms.	2-1	2-3	SPDT

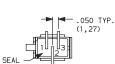
MOM. = Momentary



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+.315 ► (8,00)

.100 (2,54)

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.215 (5,46)

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GP12 Model

Terminal nos. for reference only.



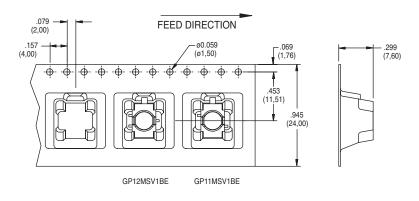


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

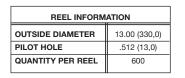
TAPE & REEL

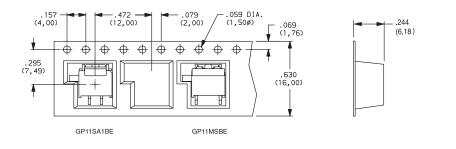
For part numbers GP11MSV1BE, GP12MSV1BE

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



For part numbers GPXXSA1BE, GPXXMSABE





FEED DIRECTION

For part numbers GP12MSCBE

REEL INFORMATION

13.00 (330,0)

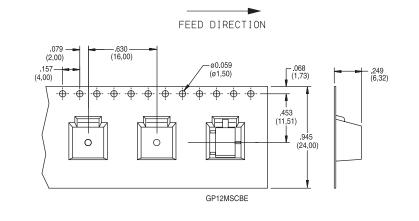
.512 (13,0)

600

OUTSIDE DIAMETER

QUANTITY PER REEL

PILOT HOLE





Dimensions are shown: Inches (mm)

Specifications and dimensions subject to change

A-80

Third Angle

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

C&K Switches:

<u>GP11MAKE</u> <u>GP11MCKE</u> <u>GP11MCBE</u> <u>GP11MABE</u> <u>GP12MSA1BE</u> <u>GP11MSA1BE</u> <u>GP11MSABE</u> <u>GP11MSABE</u> <u>GP11MSV1BE</u> GP12MABE GP12MCBE GP12MSV1BE