*Process sealed-withstands soldering and cleaning processes







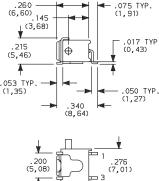
GP12MSC1KE

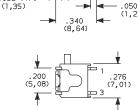


GP11MSV1KE

- Process compatible—withstands IR and vapor phase reflow soldering and cleaning processes —high temperature materials (UL 94V-0)
- Tin-lead alloy coats all sides of terminals for joint integrity
- Sealed construction—internal actuator o-ring epoxy base seal
- Five surface mount terminal styles—.050" and .100" terminal spacing
- SPST and SPDT momentary models available
- Tape and reel packaging available for automated placement







.040 TOTAL TRAVEL SEAL .020 TYP. Terminal Nos. For Reference Only GP12 Model

SWITCH FUNCTION POS. 1 POS. 2 PART NO. **GP11MSAKE** OFF MOM. Conn. Terms. OPEN 1-3 Schematic SPST ON MOM. **GP12MSAKE** Conn. Terms 2-1 2-3 Schematic SPDT

SWITCH FUNCTION

POS. 2

мом.

1-3

MOM.

2-3

POS. 1

OFF

OPEN

ON

2-1

P 2 (COMM)

●3 NO

NC 1 •/

MOM. = Momentary

PART NO.

GP11MSA1KE

GP12MSA1KE

Conn. Terms

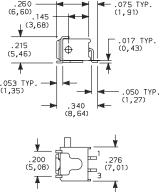
Schematic

SPST

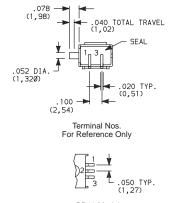
SA Surface Mount Terminals SPST and SPDT Models

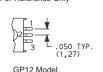
Part No. Shown: GP11MSAKE











MOM. = Momentary

Conn. Terms

Schematic

Part No. Shown: GP11MSA1KE



COMPONENTS, INC. 57 Stanley Avenue, Watertown, MA 02172 Tel: (617) 926-6400 Fax: (617) 926-6846 Sales: (800) 635-5936

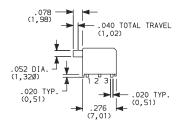


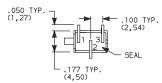
Sealed* Ultra-Miniature GP Series Surface Mount Pushbutton Switches

*Process sealed-withstands soldering and cleaning processes





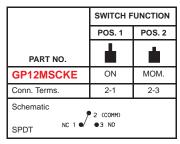




Terminal Nos. For Reference Only

SC Surface Mount Terminals SPDT Model

Part No. Shown: GP12MSCKE

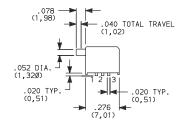


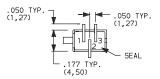
MOM. = Momentary

NOTE: Recommended for infrequent use applications only. For increased switch mounting strength, order, SV1 termination style with support bracket (see below).









Terminal Nos For Reference Only

SC1 Surface Mount Terminals SPDT Model

Part No. Shown: GP12MSC1KE

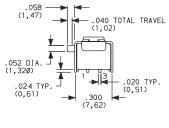
	SWITCH FUNCTION	
	POS. 1	POS. 2
PART NO.	-	•
GP12MSC1KE	ON	MOM.
Conn. Terms.	2-1	2-3
Schematic SPDT NC 1 2 (COMH) 3 NO		

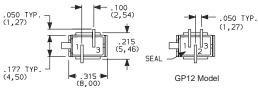
MOM. = Momentary

NOTE: Recommended for infrequent use applications only. For increased switch mounting strength, order, SV1 termination style with support bracket (see below).









Terminal Nos For Reference Only

Part No. Shown: GP11MSV1KE

	SWITCH FUNCTION		
	POS. 1	POS. 2	
PART NO.	-	•	
GP11MSV1KE	OFF	MOM.	
Conn. Terms.	OPEN	1-3	
Schematic			
1			
GP12MSV1KE	ON	MOM.	
Conn. Terms.	2-1	2-3	
Schematic SPDT NC 1 2 (COMM) SPDT NC 1 3 NO			

MOM. = Momentary

SV1 Surface Mount Terminals SPST and SPDT Models

COMPONENTS, INC. 57 Stanley Avenue, Watertown, MA 02172 Tel: (617) 926-6400 Fax: (617) 926-6846 Sales: (800) 635-5936

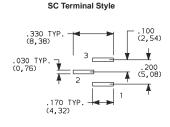
Sealed* Ultra-Miniature **Surface Mount Pushbutton Switches**

*Process sealed-withstands soldering and cleaning processes

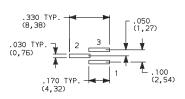
PC MOUNTING

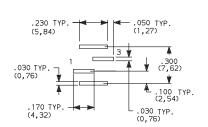
SA Terminal Style .395 TYP (10,03) (2.54).030 TYP (0,76)200 TYP. (5.08).235 TYP. (5.97)GP11 — omit pad 2

SA1 Terminal Style .100 TYP .395 TYP. .030 T .200 TYP (5.08) .050 TYP. 235 TYP. (5,97)GP11 — omit pad 2

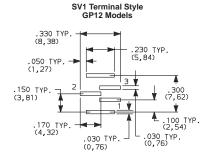


SC1 Terminal Style





SV1 Terminal Style GP11 Models



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 ULTRA-MINIATURE SURFACE MOUNT PUSHBUTTON SWITCHES are shown on pages C-60 and C-61. Switches available on embossed anti-static tape and reels per EIA 481-3, consult factory. GP Series thru-hole models also available, see pages C-57 thru C-59.

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 milliohms typ. initial @ 2-4 V DC, 100 mA.

INSULATION RESISTANCE: 109 ohms min.

DIELECTRIC STRENGTH: 500 V RMS 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: Switches available on embossed anti-static tape and reels per EIA 481-3. Tape and cover strip are conductive for use near statically sensitive components, consult factory.

MATERIALS

HOUSING AND BASE: Glass filled nylon 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.

MOVEABLE CONTACTS: Beryllium copper with gold plate over

TERMINALS: Copper alloy, with tin-lead alloy over nickel plate.

TERMINAL SEAL: Epoxy. All terminals insert molded.

NOTE: Specifications and materials listed above are general specifications for switches with standard options. For information on specific and custom switches, consult factory.