

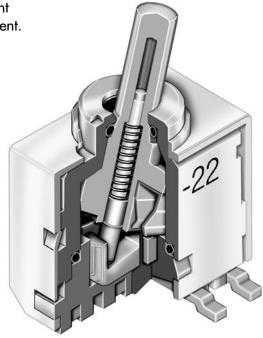
Distinctive Characteristics

Ultra-miniature size allows high density mounting, and extremely light weight of 0.6 gram makes these switches ideal for handheld equipment.

Tape-reel and stick-tube packaging allow rapid automated placement of surface mount devices. Tape-reel packaging meets EIA-481-2 Standard.

Heat resistant resin used for housing, base, and lever allows vapor phase and infrared convection reflow soldering.

Combination of design features achieves total seal and allows automated processing techniques, including flux cleaning procedures: one-piece bushing and housing, rubber seals surrounding actuator and base, epoxy at joint of case and base, and molded-in, epoxy-sealed terminals.



Award-winning STC contact mechanism with benefits unavailable in conventional mechanisms: smoother, positive detent actuation, increased contact stability and unparalleled logic-level reliability. (Additional STC details in Terms & Acronyms; see Supplement section.)

Gull-wing terminals provide mechanical stability during soldering and simplified solder joint inspection.

Coplanarity: all considered surfaces must lie between two parallel planes that are a maximum distance apart of .0059" (0.15mm). (Additional coplanarity details in Terms and Acronyms in the Supplement section.)







General Specifications

Electrical Capacity (Resistive Load)

Logic Level:

0.4VA maximum @ 28V AC/DC maximum (Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V) Note: See Supplement section for explanation of operating range.

Other Ratings

Contact Resistance:	80 milliohms maximum
Insulation Resistance:	500 megohms minimum @ 500V DC
Dielectric Strength:	500V AC minimum for 1 minute minimum
Mechanical Life:	50,000 operations minimum
Electrical Life:	50,000 operations minimum
Nominal Operating Force:	1.6N for momentary & 1.7N for maintained
Angle of Throw:	28°

Materials & Finishes

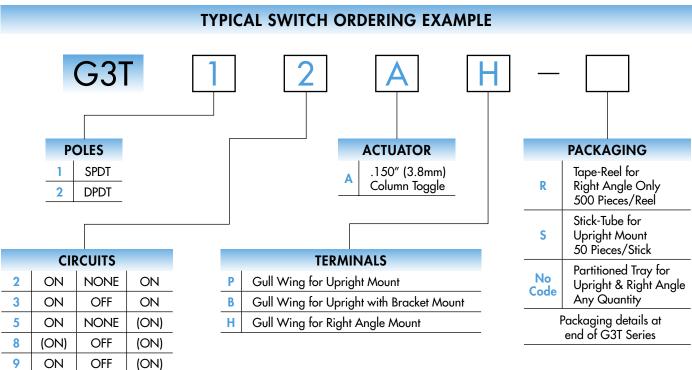
Actuator:	Polyphenylene sulfide
Case:	Polyphenylene sulfide
Sealing Rings:	Nitrile butadiene rubber
Movable Contacts:	Phosphor bronze with gold plating
Stationary Contacts:	Phosphor bronze with gold plating
Base:	Polyphenylene sulfide
Terminals:	Phosphor bronze with gold plating

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Environmental Data	
Operating Temperature Range: Humidity: Vibration:	-30°C through +85°C (-22°F through +185°F) 90 ~ 95% humidity for 96 hours @ 40°C (104°F) 10 ~ 500Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
Installation Mounting:	It is recommended that the body of models for upright mounting without bracket be fastened to a
Mooning:	panel or similar support for protection of solder joints from mechanical stress.
Coplanarity:	See specifications in Terms & Acronyms in Supplement section
Processing Soldering:	Reflow Soldering Recommended. See Profile B in Supplement section.
Solder nig.	Manual Soldering: See Profile B in Supplement section.
Cleaning:	Automated cleaning. See Cleaning specifications in Supplement section.
Standards & Certifications UL Recognition or CSA Certification:	The G3T Series toggles have not been tested for UL recognition or CSA certification. These switches are designed for use in a low-voltage, low-current, logic-level circuit. When used as intended in a logic-level circuit, the results do not produce hazardous energy.



() = Momentary



DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

G3T12AH

SPDT **ON-NONE-ON Circuit**

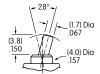
.150" (3.8mm) Column Toggle

Gull Wing Terminals for Right Angle Mount

POLES & CIRCUITS									
			Position omentary		Connected Terminals			Throw & Schematics	
		Up	Center	Down	Up	Center	Down	Note:	Terminal numbers are
Pole	Model	Slot-			Slot-				not actually on switch.
SP	G3T12 G3T13 G3T15 G3T18 G3T19	ON ON ON (ON) ON	NONE OFF NONE OFF OFF	ON ON (ON) (ON) (ON)	5-6	OPEN	5-4	SPDT	4• 5 (COM)
DP	G3T22 G3T23 G3T25 G3T28 G3T29	ON ON ON (ON) ON	NONE OFF NONE OFF OFF	ON ON (ON) (ON) (ON)	5-6 2-3	OPEN	5-4 2-1	DPDT	4• 6 1• 3

ACTUATOR

.150" (3.8mm) Column Toggle



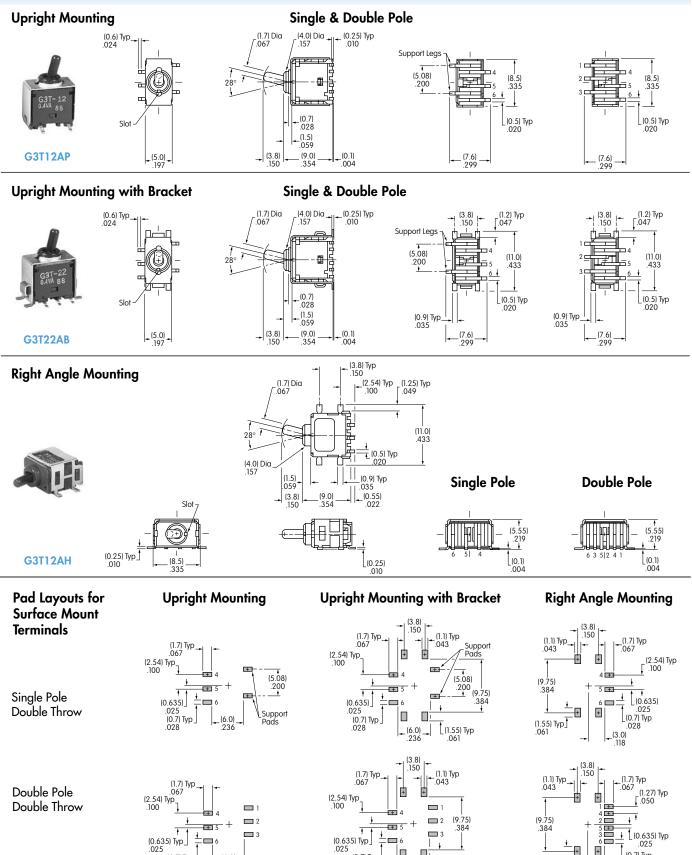


(0.7) Typ

(3.0)

(1.55) Typ .061

TYPICAL SWITCH DIMENSIONS



(0,7) Typ

028

(0.7) Typ .028

+ (6.0) .236

(6.0) [(1.55) Typ



PACKAGING



Tape-Reel for Right Angle

500 pieces per reel

Switches must be ordered in 500-piece increments when tape-reel packaging is selected.

This packaging meets EIA-481-2 Standard for "16mm and 24mm Embossed Carrier Taping of Surface Mount Components for Automatic Handling."

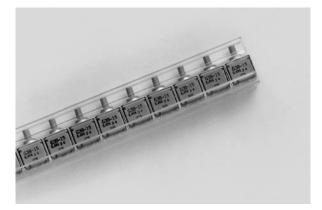
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Stick-Tube for Upright Mount

50 pieces per stick

Switches must be ordered in 50-piece increments when stick-tube packaging is selected.







Partitioned Tray for Upright & Right Angle

Any quantity

If the G3 upright models are ordered in less than 50-piece increments or the right angle models in less than 500-piece increments, the switches are packaged in a partitioned tray. No code is required.

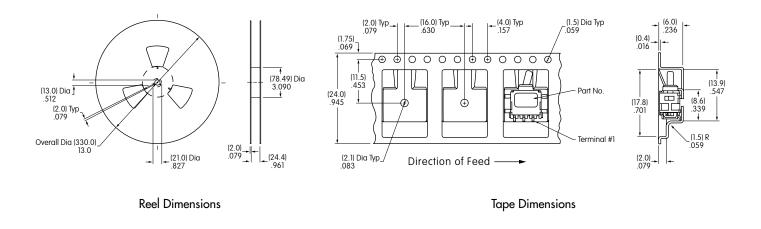




PACKAGING (CONTINUED)

Tape-Reel Packaging for Right Angle Mount

Each tape-reel of 550 pockets contains 500 switches. Minimum Leader Length: 7.87" (200mm) Minimum Trailer Length: 1.97" (50mm)



Stick-Tube Packaging for Upright Mount

Each stick-tube contains 50 switches.

