Toggles

Rockers B

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Tactiles

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Touch

Indicators

Supplement Accessories

# General Specifications

#### **Electrical Capacity (Resistive Load)**

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

#### **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:	100,000 operations minimum for On-None-On & On-Off-On
	50,000 operations minimum for other circuits
Electrical Life:	100,000 operations minimum for On-None-On & On-Off-On
	50,000 operations minimum for other circuits
Nominal Operating Force:	.81N for momentary & 1.06N for maintained
Angle of Throw:	28°

#### **Materials & Finishes**

Actuator:	Glass fiber reinforced polyamide
Case:	Glass fiber reinforced polyamide
Sealing Rings:	Nitrile butadiene rubber
Movable Contact:	Phosphor bronze with gold plating
Stationary Contacts:	Phosphor bronze with gold plating
Base:	Glass fiber reinforced polyamide
Terminals:	Phosphor bronze with gold plating

#### **Environmental Data**

	Operating Temperature Range:	–25°C through +85°C (–13°F through +185°F)
	Humidity:	90 ~ 95% humidity for 96 hours @ 40°C (104°F)
	Vibration:	10 ~ 55Hz 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 <sup>2</sup> ) acceleration (tested in 6 right angled directions, with 5 shocks in each direction

Installation

Cap Installation Force: 39.1N (8.8 lbf) maximum downward force on actuator

#### **PCB Processing**

Soldering:	Wave Soldering Recommended: See Profile A in Supplement section.
	Manual Soldering: See Profile A in Supplement section.
Cleaning:	Automated cleaning. See Cleaning specifications in Supplement section.

#### **Standards & Certifications**

The G Series rockers 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.

Toggles

Rockers

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## Distinctive Characteristics

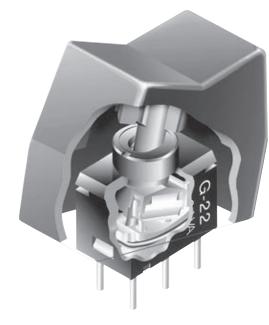
Ultra-miniature size allows high density mounting, and extremely light weight of 0.25 gram makes these switches ideal for handheld equipment.

Totally sealed body construction prevents contact contamination and allows time-and money-saving automated soldering and cleaning.

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.)

.100" x .100" (2.54mm x 2.54mm) terminal spacing conforms to standard PC board grid spacing. Round terminals facilitate easier through-hole mounting on PC boards.

Matching indicators available.



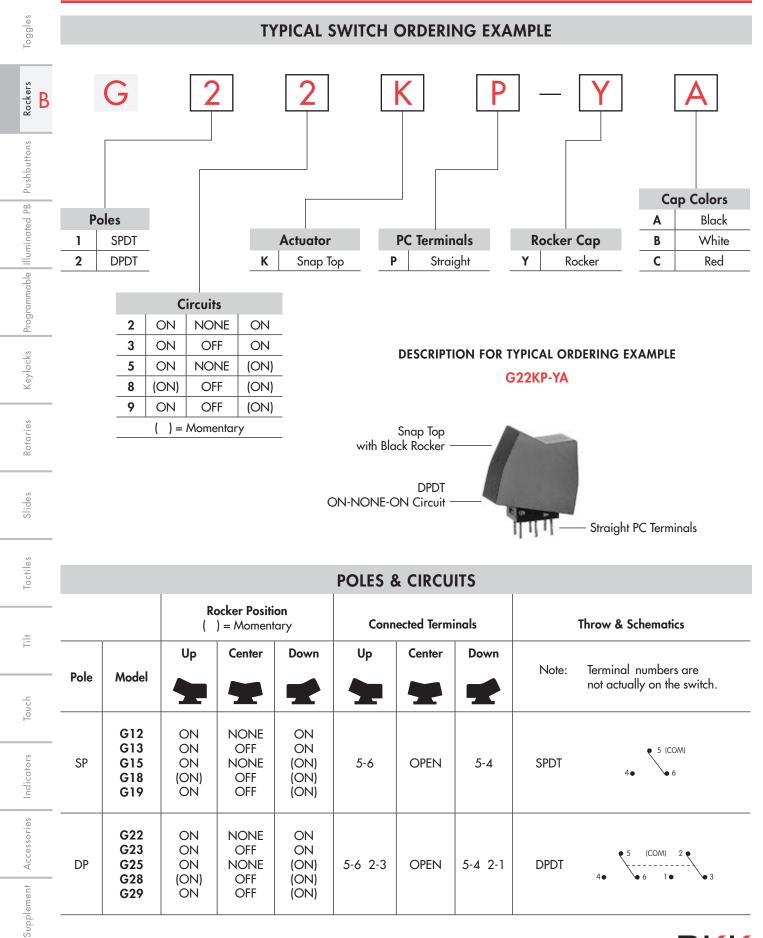




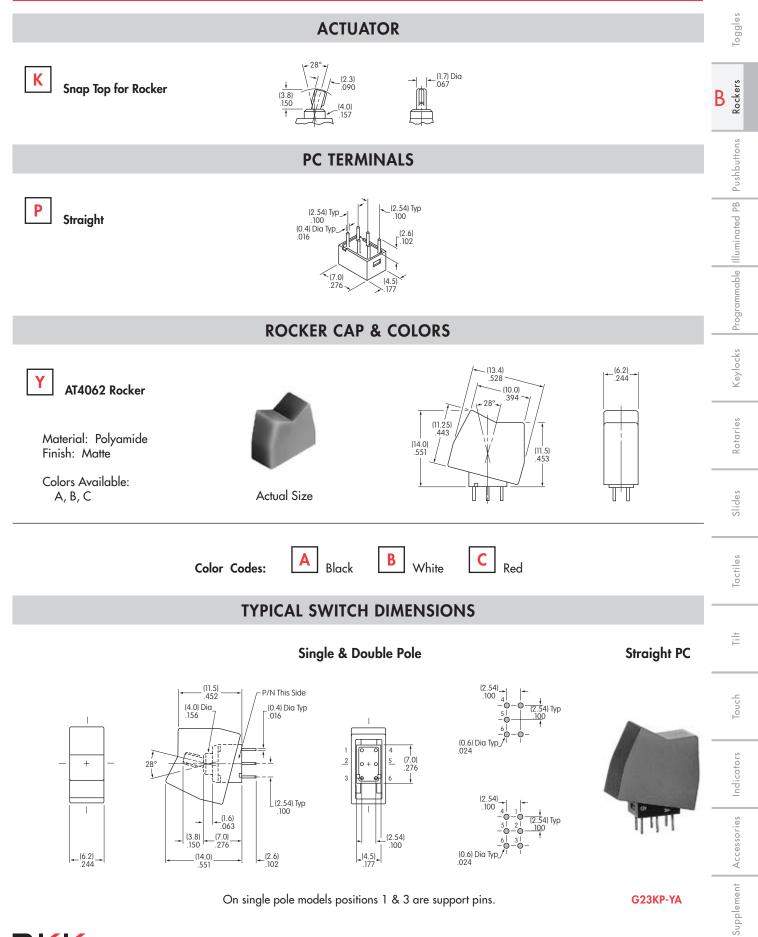
Touch

Supplement Accessories Indicators

ITCHES









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#### NKK Switches:

<u>G12KP-YC</u> <u>G22KP</u> <u>G23KP</u> <u>G28KP</u> <u>G15KP-YC</u> <u>G18KP-YB</u> <u>G22KP-YA</u> <u>G22KP-YB</u> <u>G23KP-YA</u> <u>G25KP</u> <u>G13KP-YA</u> <u>G13KP-YA</u> <u>G12KP-YA</u> <u></u>