LEAD FREE COMPATIBLE OPTION

Features/Benefits

- SPDT (N.O. & N.C.)
- Low height above PCB
- Reliable self-cleaning contact
- Surface-mount or thru-hole PCB
- Standard or custom actuator
- Central LED illumination
- Latching or Momentary
- Long travel. Smooth feel
- RoHS compliant and compatible

Materials

FIXED CONTACTS AND TERMINALS: Stainless steel, silver plated with gold flash (STD.) MOVABLE CONTACTS: Copper alloy, silver plated with gold flash (STD.) BASE: Glass filled LCP (UL94V-0)

ACTUATOR: Glass filled nylon 4/6 (UL94V-0) COVER: Stainless steel

Electrical

MAXIMUM POWER: 3.5 VA MIN./MAX. VOLTAGE: 20 mV – 50 VDC MIN./MAX. CURRENT: 0.01 mA – 250 mA DIELECTRIC STRENGTH: \geq 250 Vrms CONTACT RESISTANCE: \leq 50 m Ω INSULATION RESISTANCE: \geq 10° Ω BOUNCE TIME: \leq 1 ms LED SPECIFICATIONS: See page A-5

Mechanical

OPERATING FORCE: 2.5 N at Full Travel SWITCHING TRAVEL: .067" (1.7 mm) LATCH TRAVEL: .131" (3.6 mm) FULL TRAVEL: .200" (5.1 mm)

Typical Applications

- Telecom network equipment
- Automotive electronics
- Consumer electronics
- Computer, server, modem, data storage
- Professional instrumentation, medical



Operating Environment

OPERATING TEMPERATURE: -40°C TO 80°C. STORAGE TEMPERATURE: -40°C TO 80°C. RELATIVE HUMIDITY: 90% R.H. @ 80°C. OPERATING LIFE: 30,000 Cycles. VIBRATION: Per EIA 186-E Method MECHANICAL SHOCK: Per EIA 186-E Method 12. OVERLOAD: Withstands 40 N for 1 minute without damage

Process Environment

SOLDERABILITY: According to Mil STD 202F Method 208D or EIA RS-186E Method 9.

LEAD FREE PROCESS COMPATIBLE: 260°C peak, 10 seconds Max. above 250° C.

WASHING PROCESS: No clean process compatible (SMT) Bottom wash compatible (Thru-hole) SHEAR TEST (SWITCH/PCB): > 40 N

Packaging

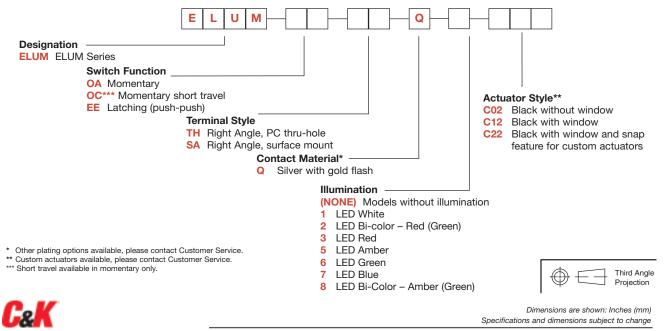
"SA" Terminal Style SMT: Tape and reel per EIA 481-2 (450/reel) "TH" Terminal Style PC: Tray (60/tray)

NOTE: Any models supplied with Q, contact material are RoHS compliant.

NOTE: Specifications and materials listed above are for switches with standard options. For information on specific and custom switches, please contact Customer Service.

Build-A-Switch

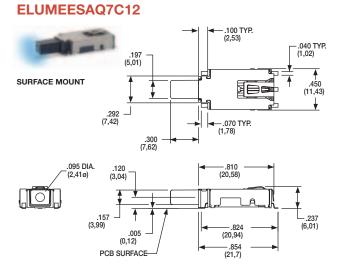
To order, simply select desired option from each category and place in the appropriate box.



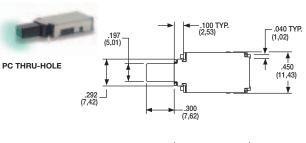
Patent Numbers 6,974,924 B2 US EP1583118B1 Europe

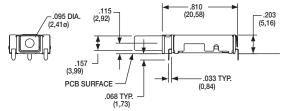
STANDARD OPTIONS

ELUMOATHQ6C12



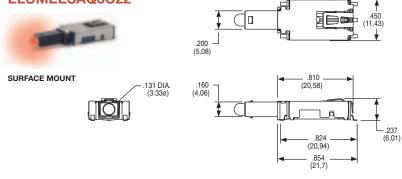
ACTUATOR SHOWN EXTENDED POSITION





ACTUATOR SHOWN EXTENDED POSITION

ELUMEESAQ3C22



ACTUATOR SHOWN EXTENDED POSITION

DESIGNATION

ELUM SERIES, Illuminated Latching Pushbutton

SWITCH FUNCTION

		POSITION	1	POSITION	12	SCHEMATIC
OPTION CODE	NO. OF POLES	SWITCH FUNCTION	CONNECTED TERMINALS	SWITCH FUNCTION	CONNECTED TERMINALS	3 C 4 NC / NO 2
OA / OC	SP Momentary	ON	3 - 4	ON (Mom.)	3 - 2	SPDT 5 1
EE	SP Latching (Push-Push)	ON	3 – 4	ON	3 – 2	- → • + Anode - Cathode
For SPST N.O. fun	LED pins 1 & 5 are independent of					

+ Anode

0

5

Circuit: Make before break

tch function

NOTE:

For bi-color LED's the polarity must be reversed to alternate the color



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

Third Angle Projection

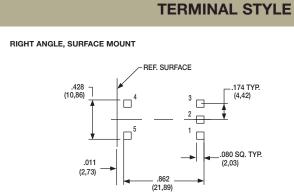
A Pushbutton

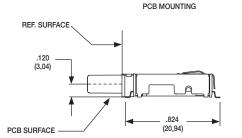
₩ ₩

- Cathode

O

1

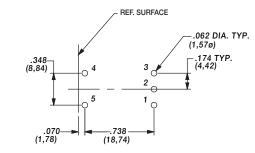


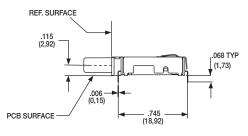


Terminal 5 = LED Anode



TH RIGHT ANGLE, PC THRU-HOLE





Terminal 5 = LED Anode

CONTACT MATERIAL

OPTION CODE	OPTION CODE CONTACT MATERIAL		RATINGS
Q	Q SILVER WITH GOLD FLASH		250 mA

* Note: See Technical Data section of this catalog for RoHS compliant and compatible definitions and specifications.

FIXED CONTACTS AND TERMINALS: Stainless steel, silver plated with gold flash MOVABLE CONTACTS: Copper alloy, silver plated with gold flash

NOTE: Any models supplied with Q, contact material are RoHS compliant.

OPTION CODE	ILLUMINATION TYPE	TYPICAL I MIN	NTENSITY* MAX	PEAK WAVELENGTH	Vf Forward Voltage
		(mcd)		(nm)	
0	Model without illumination	N/A		N/A	
1	LED Super White	4,000	5,000	N/A	3.5
2	LED Bi-Color – Red (Green)	10	20	635/565	2.0
3	LED Red	4	8	700	2.0
5	LED Amber	35	50	610	2.0
6	LED Green	35	50	565	2.0
7	LED Super Blue	800	1,500	470	3.8
8	LED Bi-Color – Amber (Green)	10	10	585/565	2.0

*LED FORWARD CURRENT: 20 mA

LED FORWARD VOLTAGE: see chart above

LED REVERSE VOLTAGE: 5.0 V MAX

* For information on specific and custom LED, please contact Customer Service.



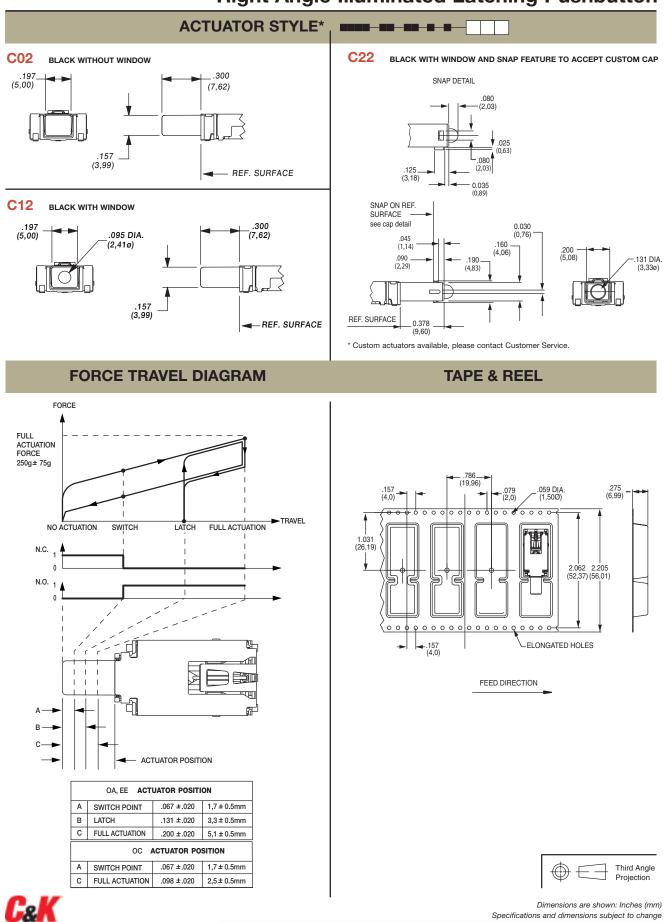


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

SA

A

Pushbutton



Pushbutton >

ELUM[™] Series Right Angle Illuminated Latching Pushbutton

Cap

AVAILABLE HARDWARE



Cap



PART NO.

957C00000 High temperature black cap with universal standby symbol

956C02000 High temperature black cap with no symbol

Material: 4/6 Nylon SMT compatible



PART NO.

181D01000 Paint and Laser Etched with black paint and universal standby symbol

Material: Clear polycarbonate

.486 (12,33) .050 (1,27) .270 (6,86) .120 (3,05) .050 (1,27) SNAP ON REF. SURFACE .150 (3,81) .040 (1,02) 130 (3.3)



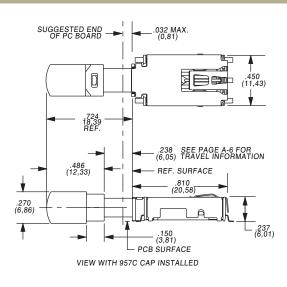
PART NO.

Cap

181D00000 Paint and laser etched with white paint underlay and black paint with universal standby symbol. Material: Clear polycarbonate

NOTE: Caps are for use with the C22 actuator style. Other colors and symbols available, consult Customer Service Center.

CAP INSTALLATION





Third Angle Projection