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

Typical Applications

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

Patent Numbers 6.974.924 B2 US EP1583118B1 Europe





Materials

FIXED CONTACTS: Stainless steel, silver plated with gold flash OPERATING TEMPERATURE: -40°C TO 80°C.

TERMINALS: Stainless steel, silver plated

MOVABLE CONTACTS: Copper alloy, silver plated with

gold flash

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: ≥ 250 Vrms CONTACT RESISTANCE: ≤ 50 mΩ INSULATION RESISTANCE: ≥ 10° Ω

BOUNCE TIME: ≤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)

Operating Environment

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)

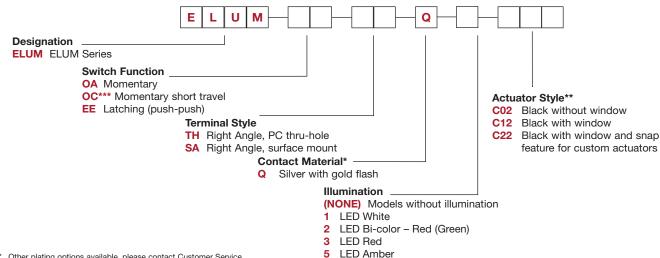
"TH" Terminal Style PC: Tray (60/tray)

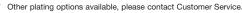
NOTE: Any models supplied with Q. contact material are RoHS compliant.

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

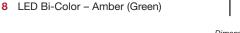
Build-A-Switch

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





Custom actuators available, please contact Customer Service.





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

Third Anale

Projection

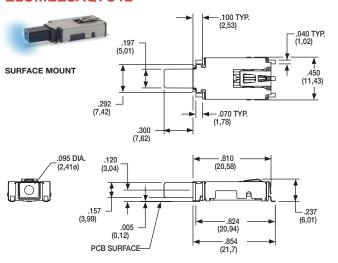
LED Green

LED Blue

^{***} Short travel available in momentary only.

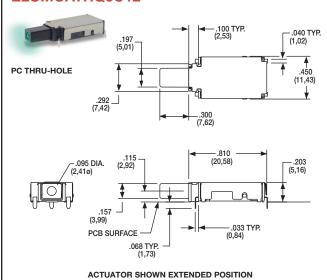
STANDARD OPTIONS

ELUMEESAQ7C12



ACTUATOR SHOWN EXTENDED POSITION

ELUMOATHQ6C12

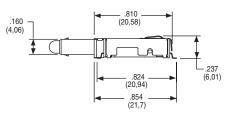


ELUMEESAQ3C22



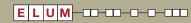
SURFACE MOUNT





ACTUATOR SHOWN EXTENDED POSITION

DESIGNATION



ELUM ELUM SERIES, Illuminated Latching Pushbutton

SWITCH FUNCTION

		POSITION	1	POSITION	N 2	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

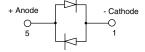
For SPST N.O. function, only terminals 3 & 2 are used. For SPST N.C. function, only terminals 3 & 4 are used.

Circuit: Make before break

LED pins 1 & 5 are independent of switch function.

NOTE:

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



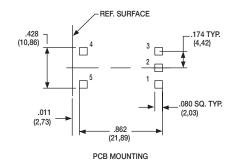


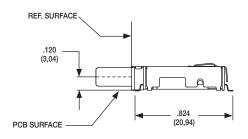


Dimensions are shown: Inches (mm) Specifications and dimensions subject to change

TERMINAL STYLE

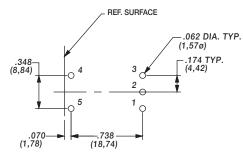
RIGHT ANGLE, SURFACE MOUNT

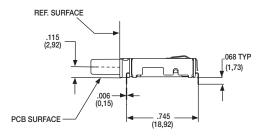




Terminal 5 = LED Anode

RIGHT ANGLE, PC THRU-HOLE





Terminal 5 = LED Anode

CONTACT MATERIAL

OPTION CODE CONTACT MATERIAL		TERMINAL PLATING	RATINGS
Q	SILVER WITH GOLD FLASH	SILVER	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.

ILLUMINATION

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

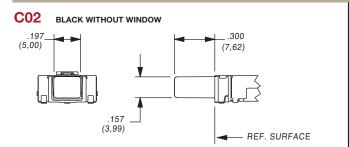
*LED FORWARD CURRENT: 20 mA LED FORWARD VOLTAGE: see chart above LED REVERSE VOLTAGE: 5.0 V MAX



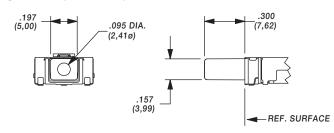


^{*} For information on specific and custom LED, please contact Customer Service.

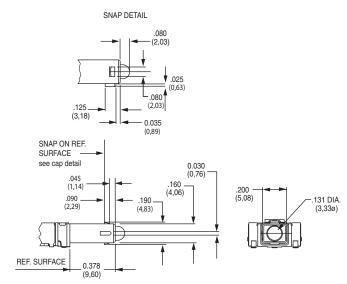
ACTUATOR STYLE*



BLACK WITH WINDOW



BLACK WITH WINDOW AND SNAP FEATURE TO ACCEPT CUSTOM CAP



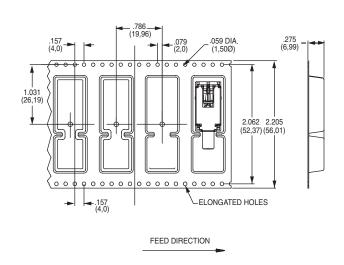
^{*} Custom actuators available, please contact Customer Service.

FORCE TRAVEL DIAGRAM

FORCE FULL ACTUATION FORCE 250g± 75g NO ACTUATION FULL ACTUATION N.O. **ACTUATOR POSITION** OA, EE ACTUATOR POSITION

Α	SWITCH POINT	.067 ±.020	1,7 ± 0.5mm		
В	LATCH	.131 ±.020	3,3 ± 0.5mm		
С	FULL ACTUATION	.200 ±.020	5,1 ± 0.5mm		
OC ACTUATOR POSITION					
	OMUTAL DAINE	007 1 000	47105		
Α	SWITCH POINT	.067 ±.020	1,7 ± 0.5mm		

TAPE & REEL





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





ELUM™ Series

Right Angle Illuminated Latching Pushbutton

Сар

AVAILABLE HARDWARE



PART NO.

957C00000 High temperature black cap with universal standby symbol

956C02000 High temperature black cap with no

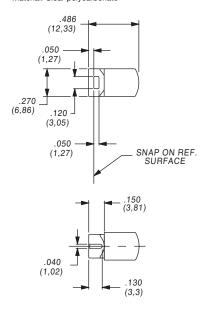
Material: 4/6 Nylon SMT compatible



PART NO.

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

Material: Clear polycarbonate





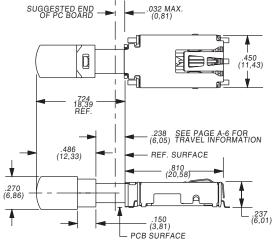
PART NO.

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



VIEW WITH 957C CAP INSTALLED





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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

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