



Miniature Illuminated Pushbutton

Features

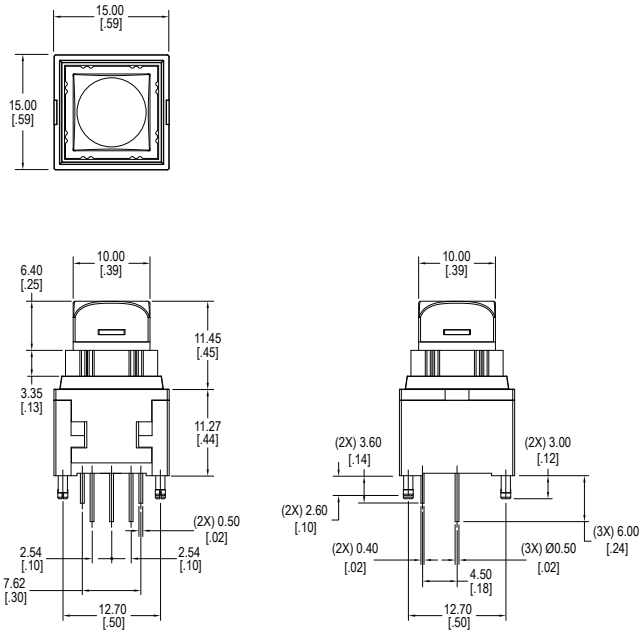
Electrical Ratings	100mA @ 12VDC	Contact Resistance	≤ 100mΩ initial
Electrical Life	1,000,000 cycles typical	Dielectric Strength	500Vrms min between contact
Mechanical Life	5,000,000 cycles typical	Insulation Resistance	≥ 100MΩ min @ 250VDC
Actuation Force	250 ± 50gF	Operating Temperature	-20°C to 70°C
Actuator Travel	4.5 ± .5mm; 3.5 ± .5mm	Storage Temperature	-20°C to 70°C

Materials

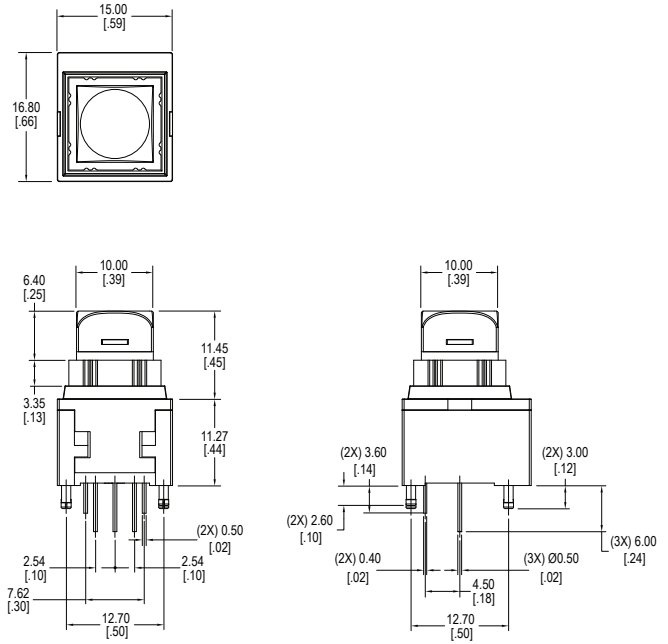
Actuator Cap	Polycarbonate (PC)
Actuator Diffuser	Polycarbonate (PC)
Actuator	Acetal Polyoxymethylene (POM), UL94V-0
Housing	Polymide (PA), UL94V-0
Terminal Base	Polymide (PA), UL94V-0
Contacts	Brass rivet, gold over nickel
Terminals	Brass, silver plated

Dimensions

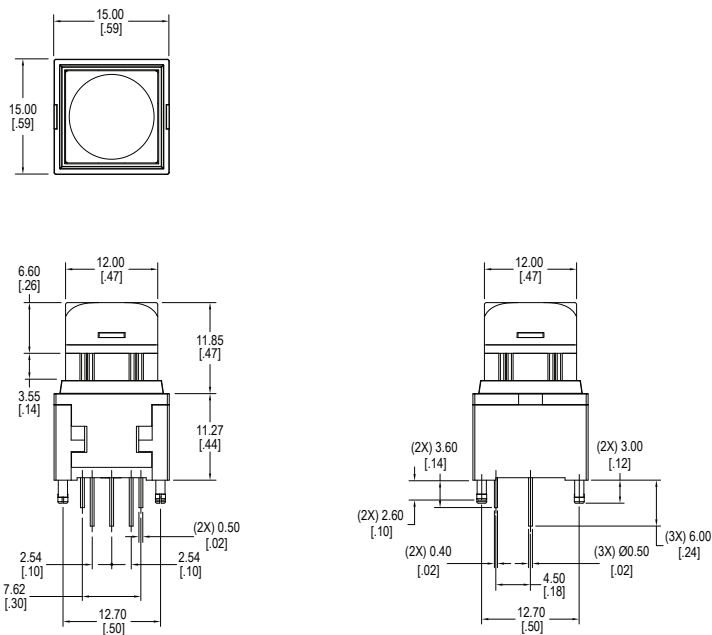
AV, sculptured square, 10.0mm, momentary



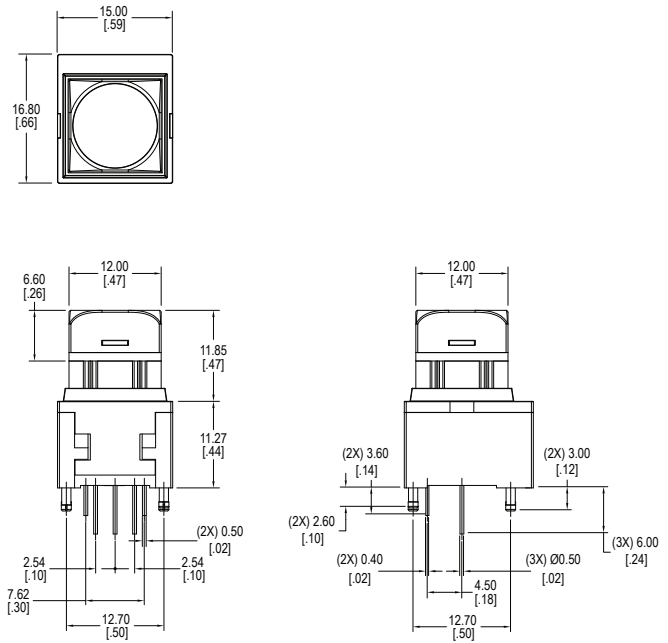
AV, sculptured square, 10.0mm, latching



BV, sculptured square, 12.0mm, momentary



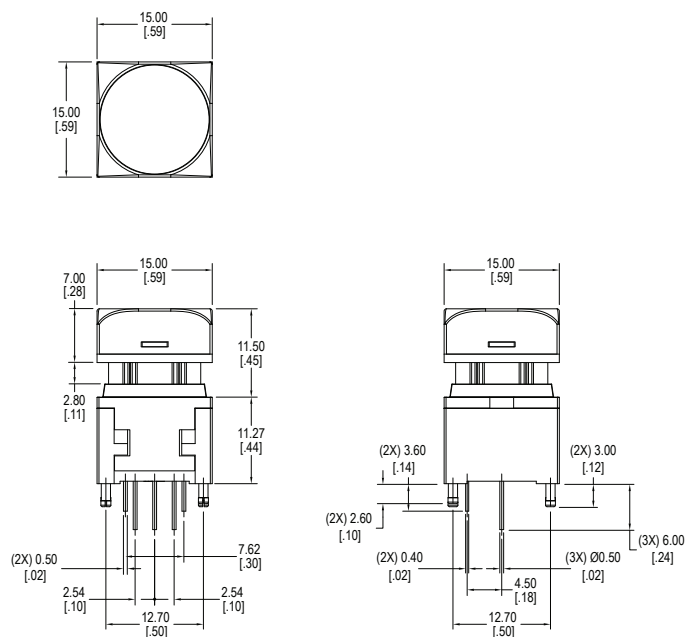
BV, sculptured square, 12.0mm, latching



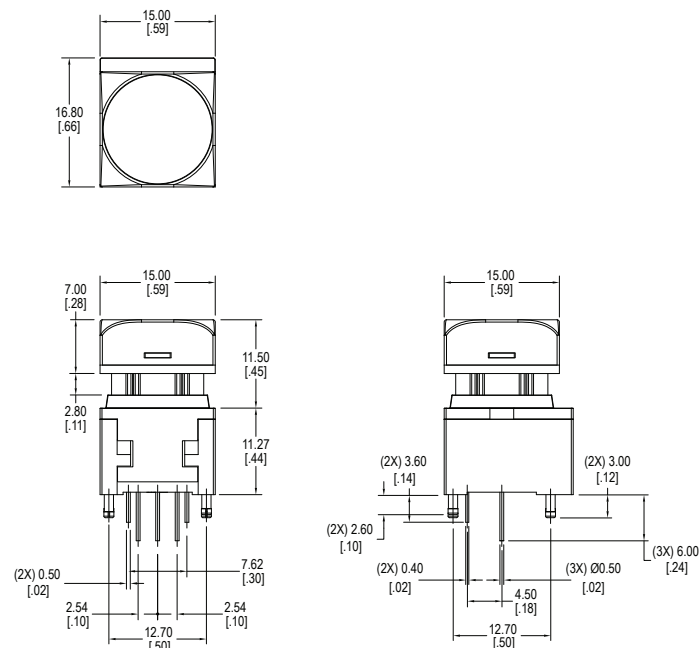
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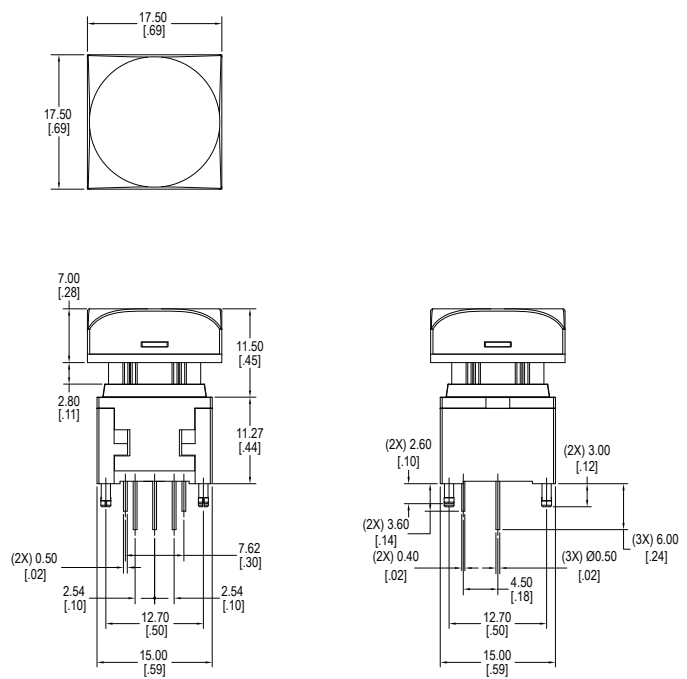
CV, sculptured square, 15.0mm, momentary



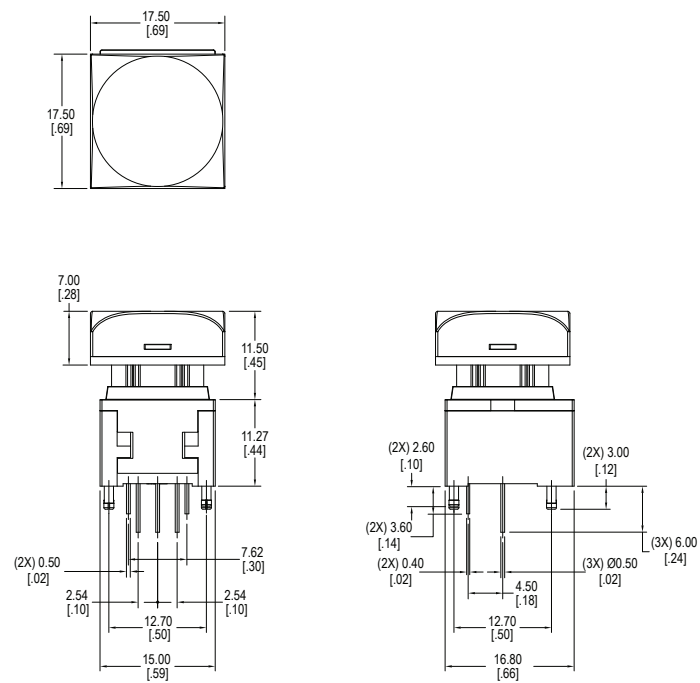
CV, sculptured square, 15.0mm, latching



DV, sculptured square, 17.5mm, momentary



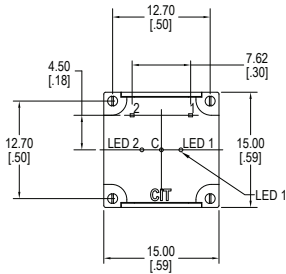
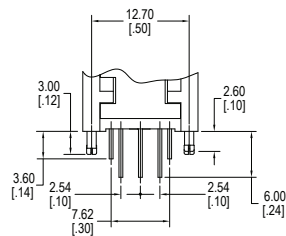
DV, sculptured square, 17.5mm, latching



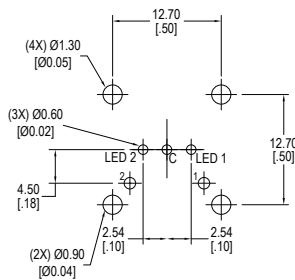
PCB Layouts & Schematics

Single or Dual color LED

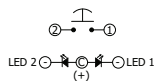
PCB layout, bottom view



PCB layout, top view

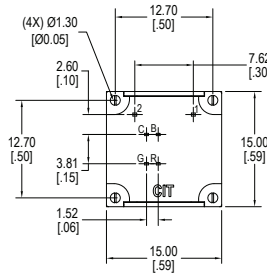
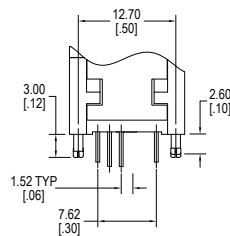


Schematic, bottom view

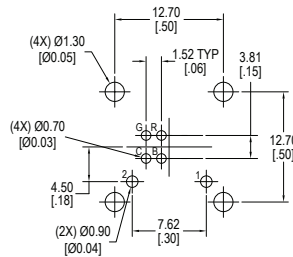


RGB LED

PCB layout, bottom view



PCB layout, top view

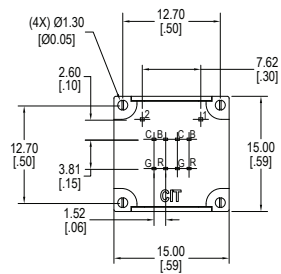
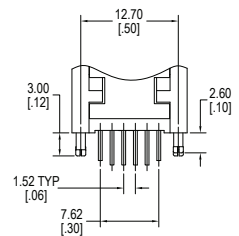


Schematic, bottom view

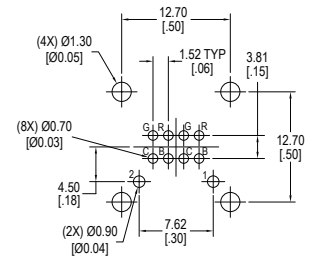


2 RGB LEDs

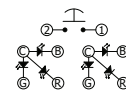
PCB layout, bottom view



PCB layout, top view

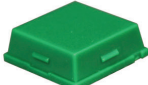
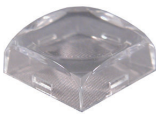
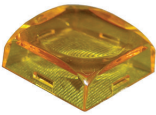
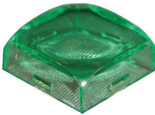
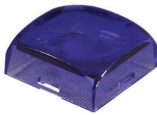


Schematic, bottom view

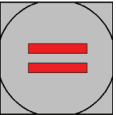
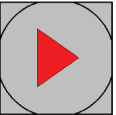
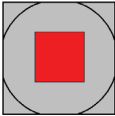
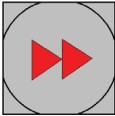
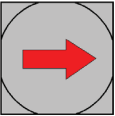
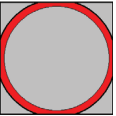
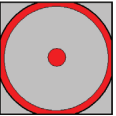


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Actuators & Diffuser Styles

1, white diffuser 	3, red diffuser 	4, yellow diffuser 	5, green diffuser 	7, blue diffuser 
	3, red cap, semi-transparent 	4, yellow cap, semi-transparent 	5, green cap, semi-transparent 	7, blue cap, semi-transparent 
0, clear cap 	3T, red cap transparent 	4T, yellow cap transparent 	5T, green cap transparent 	7T, blue cap transparent 

Laser Etching

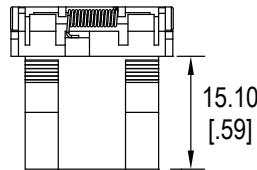
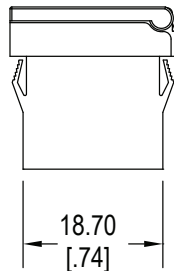
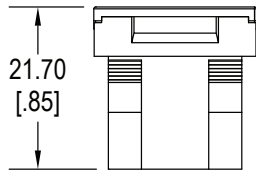
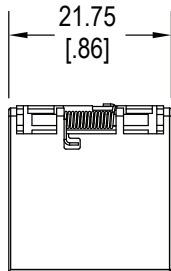
A Style 	B Style 	C Style 	D Style 	E Style 	F Style 
G Style 	H Style 	I Style 	J Style 	K Style 	L Style 

LED Characteristics

LED Ratings		Color								
		R	Y	B	W	PG	R	G	B	Units
Reverse Voltage	V_R	5	5	5	5	5	5			V
Forward Current (avg)	I_F	25	30	25	25	25	50	30	30	mA
Forward Current (peak)	I_{FS}	60	80	100	100	100	195	150	150	mA
Reverse Current $V_R = 5V$	I_R	10	100	50	50	50	10			μA
Power Dissipation	P_T	30	75	110	110	100	350			mW
Operating & Storage Temperature	T_A	-40 ~ +85					-40 ~ +85			$^{\circ}C$
Forward Voltage (typ) $I_F = 20mA$	V_F	1.7	2.0	2.6	2.7	3.1	1.8	2.8	2.7	V
Forward Voltage (max) $I_F = 20mA$	V_F	2.2	2.4	3.7	3.2	3.8	2.3	3.4	3.3	V
Wavelength at Peak Emission, $I_F = 20mA$	λ_P	650	590	475	n/a	525	630	525	470	nm
Spectral Line Half-Width, $I_F = 20mA$	$\Delta\lambda$	20	16	20	n/a	15	25	35	25	nm
Luminous Intensity, $I_F = 20mA$	LI	140	70	28.5	112	250	177	598	93.6	mcd
Viewing Angle	Θ	100	130	120	110	130	120			deg

Switch Guard

With Spring Loaded Clear Cover



PANEL THK	L
0.75 - 1.25	20.1 - 20.3
1.25 - 2.0	20.3 - 20.5
2.0 - 3.0	20.5 - 20.7

