



Specifications

Electrical Ratings	500mA @ 24VDC
Electrical Life	1,000,000 cycles typical
Contact Resistance	<50mΩ initial
Actuation Force	200 ±50gF
Actuation Travel	2.2 ± .1mm

Dielectric Strength	1000Vrms min
Insulation Resistance	>100MΩ min
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C

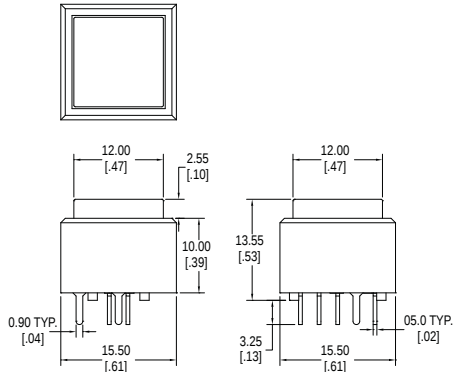
Materials

Actuator Cap	Poly Carbonate (PC)
Actuator Body	Poly Carbonate (PC)
Housing	Polyamide (PA), UL94V-0
Terminal Base	Polyamide (PA), UL94V-0
Contacts	Brass Rivet, Silver or Gold Plated
Terminals	Brass, Silver or Gold Plated

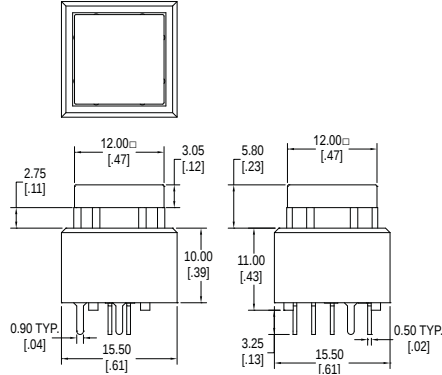
Ordering Information

1. Series	JC	V	1		RR	R	33	MSJ
JC								
2. Actuator Options S = Square H = Extended Square R = Rectangle V = Square, concave Q = Square, concave PS = Square, panel mount PH = Extended Square, panel mount								
3. Number of Poles 1 = SPDT 2 = DPDT								
4. Latching Option Blank = Momentary L = Latching **Not available with R actuator								
5. LED Color BB = Blue RR = Red GG = Green YY = Yellow RGB = Red/Green/Blue WW = White RW = Red/White YG = Yellow/Green YB = Yellow/Blue YW = Yellow/White GB = Green/Blue GW = Green/White BW = Blue/White								
6. Contact Material Q = Silver R = Gold								
7. Diffuser Color Options Blank = White (standard) 3 = Red 4 = Yellow 5 = Green 7 = Blue								
8. Actuator Color Options **available only with V & Q actuators Blank = Clear (standard) 3 = Red 4 = Yellow 5 = Green 7 = Blue								
9. Laser Etching Colors Blank = No laser etching color MS = Misty Silver B = Black								
10. Laser Etching Styles Blank = No laser etching style A C E G I K B D F H J L								

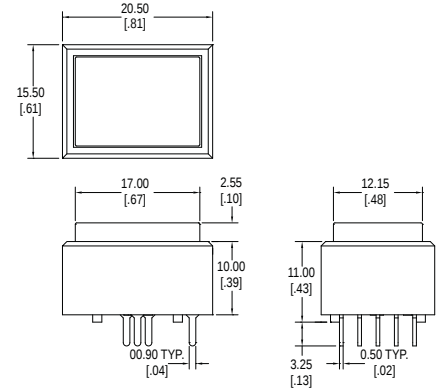
Dimensions



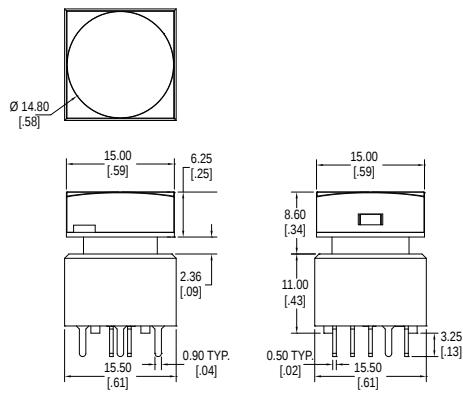
S = Square



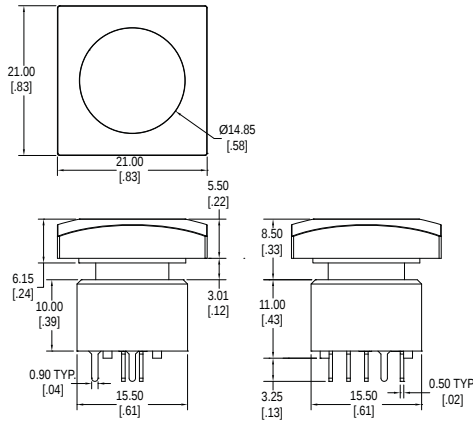
H = Extended Square



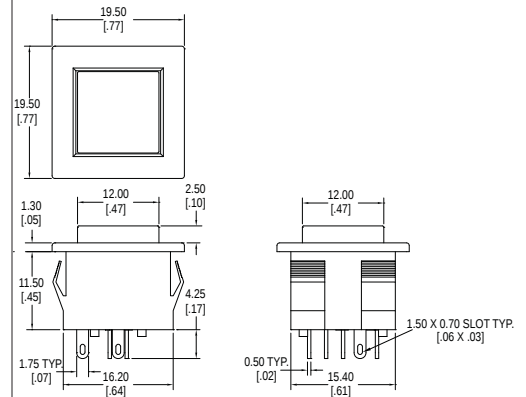
R = Rectangle



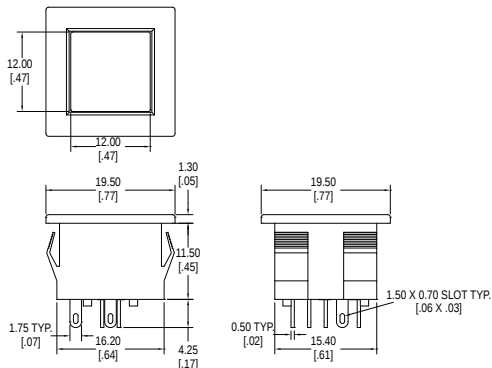
V = Square, Concave



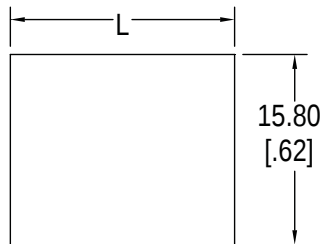
Q = Square, Concave



PH = Square, Panel Mount



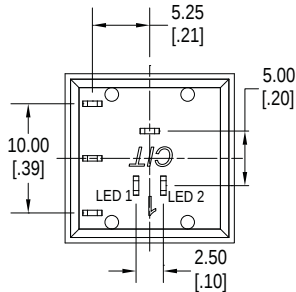
PS = Square, Panel Mount



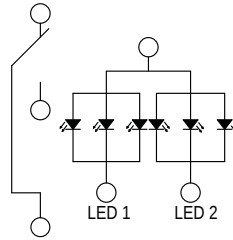
Panel Cut-Out

Panel Thickness	"L"
0.75 - 1.25mm	18.0 - 18.2mm
1.25 - 2.00mm	18.2 - 18.4mm
2.00 - 3.00mm	18.4 - 18.6mm

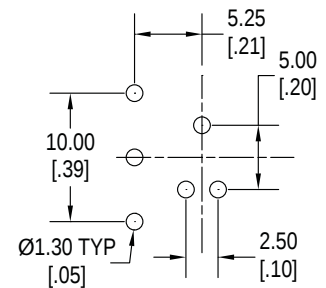
Bottom Views, Schematics & PC Layouts



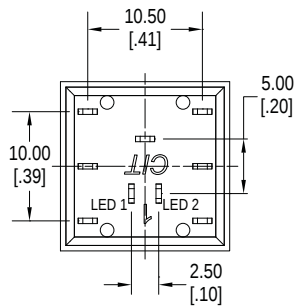
JC S, H, V & Q (SPDT)
Bottom View



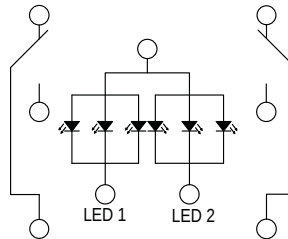
JC S, H, V & Q (SPDT)
Schematic



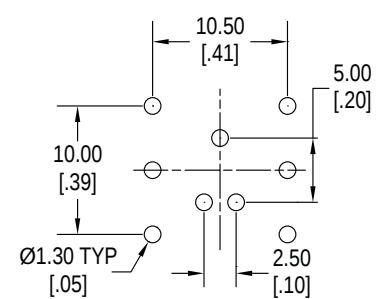
JC S, H, V & Q (SPDT)
PC Layout



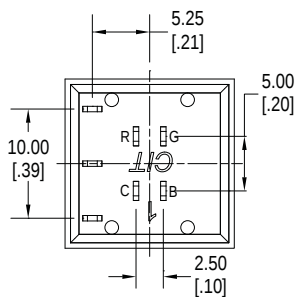
JC S, H, V & Q (DPDT)
Bottom View



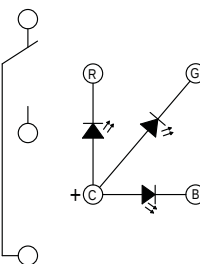
JC S, H, V & Q (DPDT)
Schematic



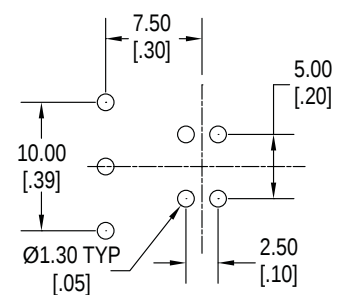
JC S, H, V & Q (DPDT)
PC Layout



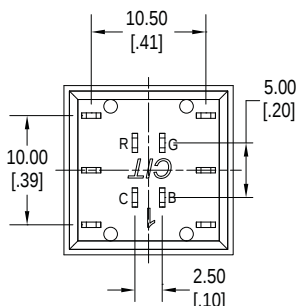
JC S, H, V & Q (SPDT)
RGB Bottom View



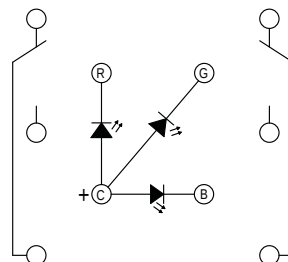
JC S, H, V & Q (SPDT)
RGB Schematic



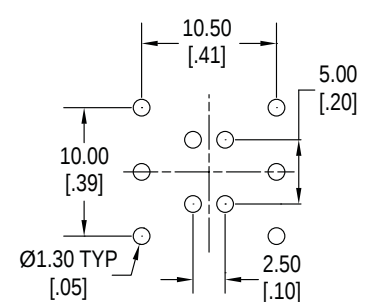
JC S, H, V & Q (SPDT)
RGB PC Layout



JC S, H, V & Q (DPDT)
RGB Bottom View

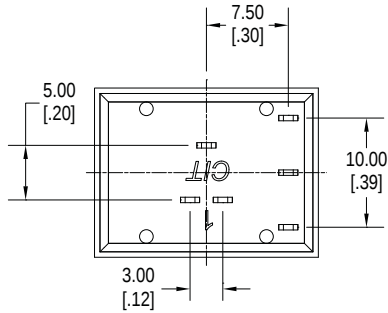


JC S, H, V & Q (DPDT)
RGB Schematic

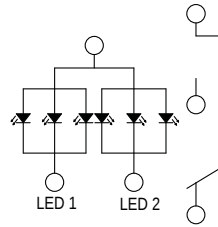


JC S, H, V & Q (DPDT)
RGB PC Layout

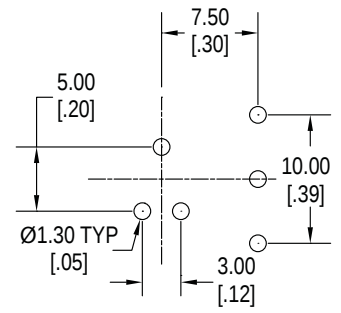
Bottom Views, Schematics & PC Layouts



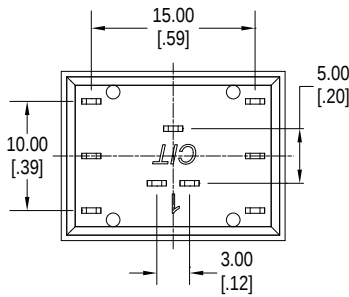
**JC R (SPDT)
Bottom View**



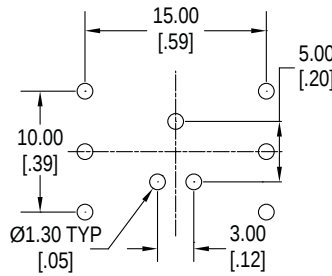
**JC R (SPDT)
Schematic**



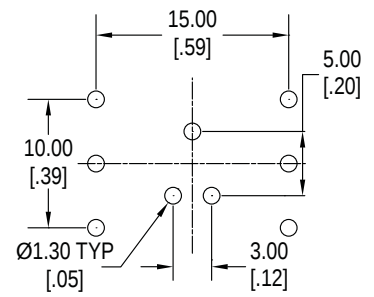
**JC R (SPDT)
PC Layout**



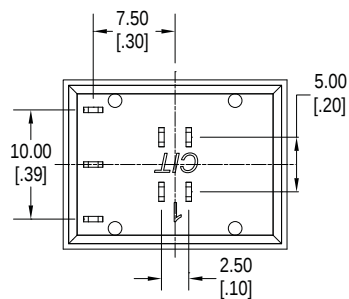
**JC R (DPDT)
Bottom View**



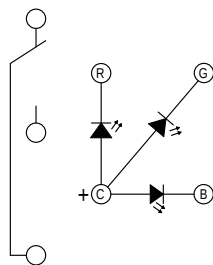
**JC R (DPDT)
Schematic**



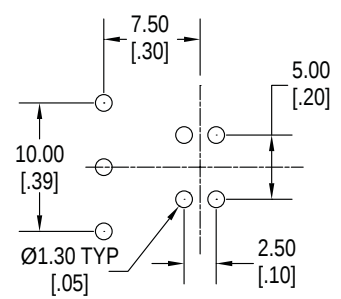
**JC R (DPDT)
PC Layout**



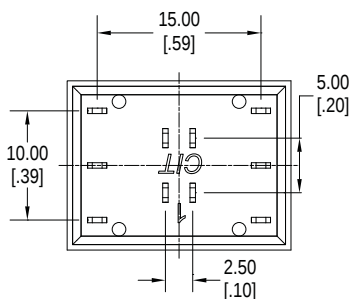
**JC R (SPDT)
RGB Bottom View**



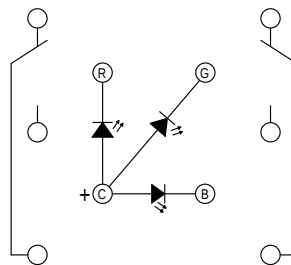
**JC R (SPDT)
RGB Schematic**



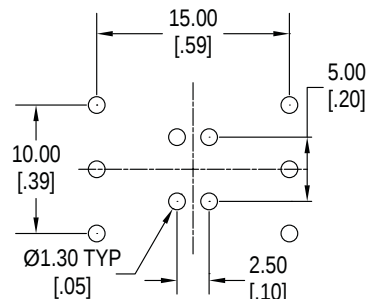
**JC R (SPDT)
RGB PC Layout**



**JC R (DPDT)
RGB Bottom View**



**JC R (DPDT)
RGB Schematic**



**JC R (DPDT)
RGB PC Layout**

Actuators & Diffuser Styles



3 = Red Diffuser



4 = Yellow Diffuser



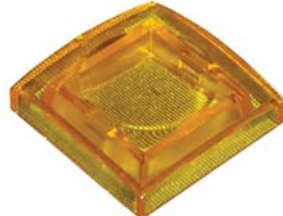
5 = Green Diffuser



7 = Blue Diffuser



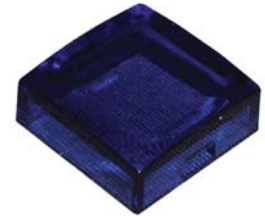
3 = Red Actuator



4 = Yellow Actuator



5 = Green Actuator



7 = Blue Actuator

Laser Etching Styles



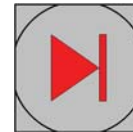
A



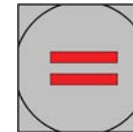
B



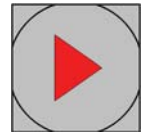
C



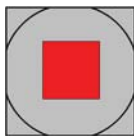
D



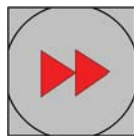
E



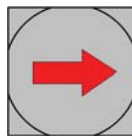
F



G



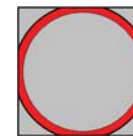
H



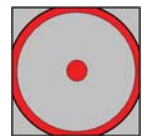
I



J



K



L

LED Characteristics

LED Ratings		Color					
		R	G	Y	B	W	Units
Reverse Voltage	V_R	5	5	5	5	5	V
Forward Current (avg)	I_F	30	30	30	30	30	mA
Forward Current (peak)	I_{FS}	100	120	100	100	100	mA
Reverse Current $V_R = 5V$	I_R	10	10	10	10	10	μA
Power Dissipation	P_T	100	100	100	120	120	mW
Operating & Storage Temperature	T_A	-40 ~ +85					$^{\circ}C$
Forward Voltage (typ) $I_F = 20mA$	V_F	1.7	1.7	1.7	3.5	3.5	V
Forward Voltage (max) $I_F = 20mA$	V_F	2.6	2.6	2.6	4.0	4.0	V
Wavelength at Peak Emission, $I_F = 20mA$	λ_P	697	565	585	470	n/a	nm
Spectral Line Half-Width, $I_F = 20mA$	$\Delta\lambda$	20	20	20	25	n/a	nm
Luminous Intensity, $I_F = 20mA$	LI	171	171	171	450	400	mcd
Viewing Angle	Θ	50	50	50	50	50	deg

Switch Guard

With Spring Loaded Clear Cover

