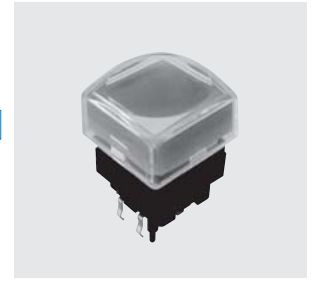


15GL



RoHS Compliant

Illuminated Pushbutton Switches



Specification

Rating	Non-switching : 1mA, DC20V Max.or 5mA,DC5V Max. Break current : Same as Non-switching Min. rating : 1mA, DC5V
Contact Resistance	200Ω Max.
Dielectric Strength	100MΩ Min. (DC100V)
Insulation Resistance	AC250Vrms 1minute
Operating Force	1.18~1.96N
Stroke	1.6±0.3mm
Operating Temperature Range	-10°C~+60°C
Storage Temperature Range	-25°C~+70°C
Electrical Life	500,000 operations
Material/Finish	Clear cover,Key top:Polycarbonate Housing,Case:GF-PBT Contact terminals:Phosphor bronze/Gold over Nickel plating LED terminal:Phosphor bronze/Gold over Nickel plating

Part Numbering

15GL - 180 - 0010 - E

Series Code	Key Top Style	Transparent Cover	Key top / LED Color						Pb Free
	Code Style	Code Description	Color Code Color Code Color Color						
	14 14mm sq. 18 18mm sq.	0 With cover 1 Without cover	Code Key Top LED Code Key Top LED						
			000 White Yellow 080 White Green						
			010 Red Red 160 White Red						
			030 Green Green 001 White Red·Green						

Type and LED Specification

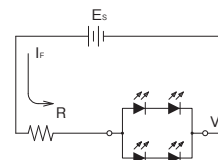
Part No.	Key Top	LED	LED Characteristics								
			Max. Rating (25°C)		Forward Voltage (V _F)		Recommended Forward Current	Across Terminals			
			Reverse Voltage (V _R)	Forward Current (I _F)	Standard	Max					
15GL-***-0000-X	White	Yellow	10V	50mA	4.2V	5.2V	40mA	5-6			
15GL-***-0010-X	Red	Red			4.0V						
15GL-***-0030-X	Green	Green			4.4V						
15GL-***-0080-X	White	Green			4.4V						
15GL-***-0160-X	White	Red			30mA				3.6V	20mA	6-8
15GL-***-0001-X	White	Green			40mA				4.4V	40mA	5-7

(Note 1) *** designate Key Top Style and With/Without Transparent Cover.
 "14" = 14mm sq.
 "18" = 18mm sq.
 "0" = With cover
 "1" = Without cover

LED Characteristics		
Ambient Temperature and Allowable Forward Current		
Single Color LED	Dual Color LED: Red	Dual Color LED: Green
<p>LED Reduction Rate 0.73mA/K</p>	<p>LED Reduction Rate 0.45mA/K</p>	<p>LED Reduction Rate 0.55mA/K</p>

Precautions

- To prevent overcurrent of LED, connect a protective resistance (R) in series.
- For the values of V_F, etc., refer to the table shown above.
- R: Protective resistance E_S: Supply voltage
V_F: Forward voltage of LED I_F: Forward current of LED



$$R = \frac{E_s - V_F}{I_F}$$

