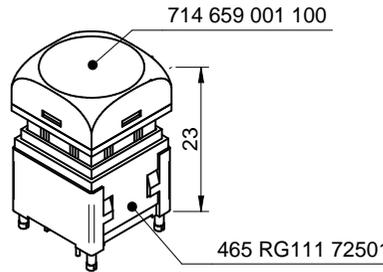
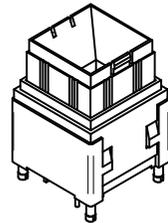
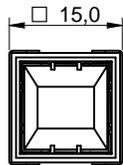
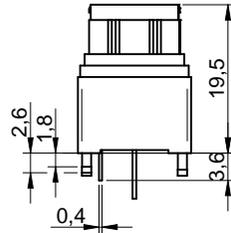
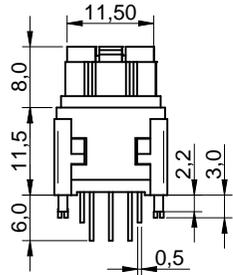


P.C.B Layout



Scale - 1:1

TECHNICAL CHARACTERISTICS

SPECIFICATION

- >Rating: 100mA 12VDC
- >Contact Resistance : 200mΩ max.
- Initial : 300mΩ max.
- After Life Test : min. 100MOHM at 500VDC
- >Insulation Resistance : 500VAC for 1 minute
- >Dielectric Strength :
- >Pre-Travel: 2.7 ±0.3mm
- >Total-Travel: 4.5 ±0.3mm
- >Bounce:10ms max

MATERIAL

- >Actuator: POM UL HB
- >Actuator Fixture : PA66 UL HB, color Black
- >Frame : PA66 UL HB, color Black
- >Stationary Board: PA66 UL HB
- >Stationary Contact : Brass with Gold
- >Moving Contact : Bronze with Gold
- >Spring: Carbon Steel
- >PCB : FR4 Epoxy Resin
- >Switch Terminal : Brass with Tin
- >LED Terminal : Copper plated steel with Tin

SOLDERING INFORMATION

- >Terminal in THT version
- >Wave soldering 260°C 10sec. max
- >Hand soldering under 350°C for 3sec. max

ENVIRONMENTAL

- Storage condition : -40°C ~ +85°C ,60% RH max.
- Operation condition : -40°C ~ +85°C
- Compliance : ROHS, Reach

HANDLING ADVISE

- >ESD prevention methods need to be applied for manual handling and processing by machinery
- >Resistors for protection are obligator

PACKAGING INFORMATION

- >ESD Tray

Part number	Force	Color of LED	Function	Schematic	Life Cycle
465 RG111 72501	200g ± 80g	Red/Green	Momentary	SPST	1.000.000

This electronic component is designed and developed with the intention for use in general electronics equipments.

Before incorporating the components into any equipments in the field such as aerospace, aviation, nuclear control, submarine, transportation, (automotive control, train control, ship control), transportation signal, disaster prevention, medical, public information network etc. where higher safety and reliability are especially required or if there is possibility of direct damage or injury to human body, Würth Elektronik must be asked for a written approval.

In addition, even electronic component in general electronic equipments, when used in electrical circuits that require high safety, reliability functions or performance, the sufficient reliability evaluation-check for the safety must be performed before by the user before usage.

Projection				GENERAL TOLERANCE DIN ISO 2768 T1m		Basic material				
				Date	Name	DESCRIPTION				
				Drawn	13-10-01	Fandrey	SwPBTL			
				Checked	13-10-01	Hsu	WS-PBTL 15x15mm Push Button Switch with integrated LED, THT version			
a	(non-shorting)	15-01-20	DaF			Scale	1:1	Position		SIZE
REV	FILE	DATE	BY			Drawing.- No.	465 RG 111 72501			A4
System: Solid Edge ST6										

item	Emitting color		Red	Green
	Order code		RG	
		unit		
1	Peak wavelength typ.	nm	630/530	
2	Dominant Wave length	typ.nm	625/525	
	@IF=20mA			
3	spectral Line Half-width	typ.nm	15/15	
	@IF=20mA			
4	Capacitance	typ.pF	35/100	
	VF=0V;f=1MHZ			
5	Forward voltage	typ. V	2.1/3.2	
	@IF=20mA	max.V	2.4/3.5	
6	Reverse current	uA	10	
	@VR=5V			
7	ESD	V	2000/2000	
8	Viewing Angle	°	120	
	@20mA 2θ 50% typ			
9	Luminous intensity	min. mcd	280/600	
	@IF=20mA	typ. mcd	350/700	
10	Material		AlGaN P + InGaN	
11	lens type		water clear	

Handling Advise

- 1) The solder profile has to be complied with according to the WE technical reflow /or wave soldering specification, otherwise no warranty will be sustained
- 2) All products are supposed to be used before the end of the period of 12 months based on the product date-code, if not 100% solder ability can't be warranted.
- 3) Violation of the technical product specifications such as exceeding the absolute maximum ratings will be result in the loss of warranty.
- 4) It's also recommended to return the products into the original packaging.
- 5) ESD prevention methods need to be implemented for manual handling and processing by machinery.
- 6) Resistors for protection are mandatory!
- 7) The standard deliveries include values in the range and limitation as defined in the Electrical & Optical Properties specified in the datasheet. On each reel, only one bin is sorted and taped. The bin is defined on intensity, chromaticity coordinate or wavelength and forward voltage. In order to ensure highest availability, the reel binning of standard deliveries can vary. A single bin cannot be ordered. Please contact us in advance, if you need a particular bin sorting before placing your order to clarify the lead time, MOQ and pricing.

Absolute Maximum Ratings (Ambient Temperature 25C)			
Properties	Red	Green	unit
Power Dissipation	120	105	mW
Peak Forward current	100	100	mA
continuous Forward curren	30	50	mA
Reverse voltage	5	5	V
ESD Threshold / HBM	2000	2000	V

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						Drawing.- No. 465 RG 111 72501				A4
REV	FILE	DATE	BY			System: Solid Edge ST4				