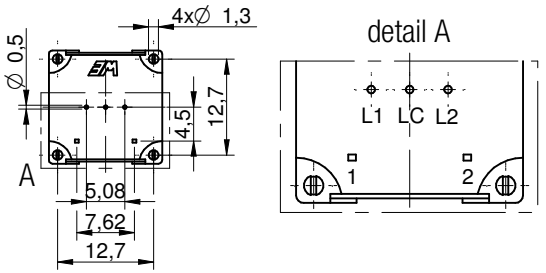
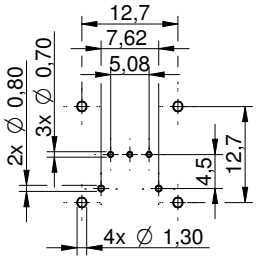
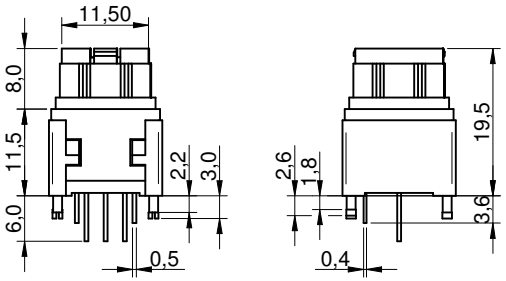
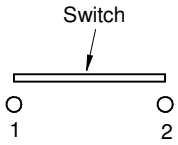


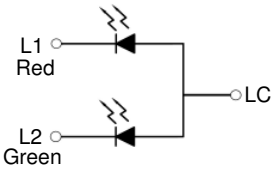


P.C.B Layout

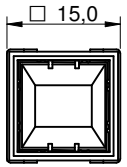


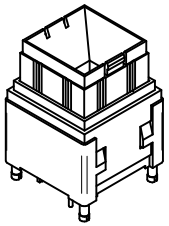


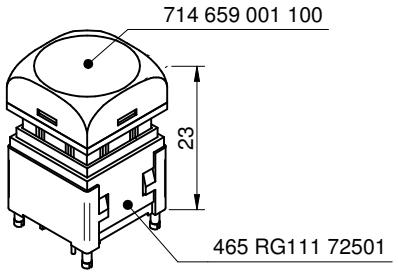
Circuit Diagram



LED Schematic







Scale - 1:1

TECHNICAL CHARACTERISTICS

SPECIFICATION

>Rating:	100mA 12VDC
>Contact Resistance :	
Initial :	200mΩ max.
After Life Test :	300mΩ max.
>Insulation Resistance :	min. 100MOHM at 500VDC
>Dielectric Strength :	500VAC for 1 minute

>Pre-Travel: 2.7 ±0.3mm
>Total-Travel: 4.5 ±0.3mm
>Actuation Feedback: non-tactile
>Actuator function: auto-return

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 applicated 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

REV	FILE	DATE	BY

Projection

GENERAL TOLERANCE
DIN ISO 2768 T1m

Basic material

	Date	Name
Drawn	13-10-01	Fandrey
Checked	13-10-01	Hsu

DESCRIPTION
SwPBTL
WS-PBTL 15x15mm Push Button Switch with integrated LED, THT version

WÜRTH ELEKTRONIK

Scale 1:1 | Position | SIZE A4

Drawing.- No. 465 RG 111 72501

System: Solid Edge ST4

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

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

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.

Projection

GENERAL TOLERANCE
DIN ISO 2768 T1m

Basic material

REV	FILE	DATE	BY

	Date	Name
Drawn	13-10-01	Fandrey
Checked	13-10-01	Hsu

DESCRIPTION
SwPBTL
WS-PBTL 15x15mm Push Button Switch with integrated LED, THT version

WÜRTH ELEKTRONIK

Scale 1:1 | Position | SIZE A4

Drawing.- No. 465 RG 111 72501

System: Solid Edge ST4