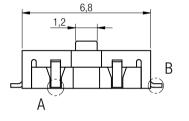
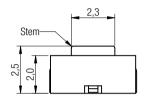
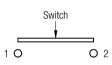


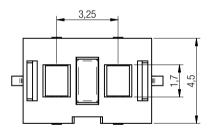
Pattern Dimensions

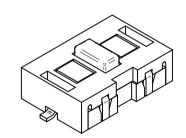


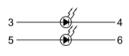




Circuit Diagram







LED SCHEMATIC

TECHNICAL CHARACTERISTICS

SPECIFICATION

>Rating: 50mA, 12VDC

>Contact Resistance:

Initial: 100mOHM max.
After Life Test: 100mOHM max.

Insulation Resistance: min. 100MOHM at 500VDC

Dielectric Strength: 250VAC for 1 minute

Stroke: 0.25 +0.2/-0.1 mm

MATERIAL

>Cover: LCP UL 94V-0 >Actuator: LCP UL 94V-0

>Frame: LCP UL 94V-0, color white
>Contact: Stainless Steel with Ag
>Terminal: Brass with Ag

>Tape: Polyimide

SOLDERING INFORMATION

>Terminal in SMD version

>According to JEDEC J-STD 020 Hot Air, 2 times max.

>Hand soldering under 350°C for 3 sec. max

ENVIRONMENTAL

>Storage condition: -40°C ~ +85°C, 60% RH max.

>Operation condition: -40°C ~ +85°C

>MLS Level: 3

>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

>Reel in ESD bag

PN	Force	Color of LED	Life cycle	
	-			
44 4RD2 1025 816	160g +75/-30gf	Red / Red	50.000	
44 4VD2 1025 816	160g +75/-30gf	Bright green / Bright green	50.000	
44 4BD2 1025 816	160g +75/-30gf	Blue / Blue	50.000	
44 4YD2 1025 816	160g +75/-30gf	Yellow / Yellow	50.000	

Scale - 5:1

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, Wurth 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		Projection	1				Basic material			
S		WÜRTH ELEKTRONIK		—		.x = +/- 0.2 .xx = +/- 0.1					
				,	Date Name I		Name	DESCRIPTION			
					Drawn	12-10-09	Jelisarow	SwTact			
					Checked			WS-TLS 6,8*4,5mm Tact Switch with integrated LED, SMD version			
					WE			Scale 5:1 Position	SIZE		
					eiCan CAD eiCan			Drawing No. 444xx21025816	A /		
									A4		
	REV	FILE	DATE	BY	EDV NO 444x21025816.dft		6.dft	System :Solid Edge ST4			

	Emitting color		Yellow	Red	bright green	green	Blue
	Order code	YS	RS	VS	GS	BS	
item	unit						
1	Peak wavelength typ.	nm	590	650	574	520	468
	Dominant Wave length						
	@IF=20mA						
2		typ.nm	590	630	567	525	470
	spectral Line Half-width						
3	@IF=20mA	typ.nm	20	28	20	35	21
	Capacitance						
4	VF=0V;f=1MHZ	typ.pF	20	35	15	100	100
	Forward voltage	typ. V	2	1,95	2,1	3,2	3,2
5	@IF=20mA	max.V	2,5	2,5	2,5	4	4
	Reverse current						
6	@VR=5V	uA	10	10	10	10	10
7	ESD	V	2000	2000	2000	1000	1000
8	Viewing Angle						
	@20mA 2θ 50% typ	0	145	145	145	145	145
	Luminous intensity	min. mcd	80			80	
9	@IF=20mA	typ. mcd	180	220		150	
10	Material		AlGalnP	AlGalnP	AlGalnP	InGaN	InGaN
11	lens type		water clear	water clear	water clear	water clear	water clear

Absolute Maximun Ratings (Ambient Temperature 25C)

Properties	Blue & green	Red	yellow	bright green	Unit
Power Dissipation	120	75	75	75	mW
Peak Forward current	100	185	175	150	mA
continuous Forward current	30	30	30	30	mA
Reverse voltage	5	5	5	5	V
ESD Threshold / HBM	1000	2000	2000	2000	V

HANDLING ADVISE

- 1) The solder profile has to be complied with according to the 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% solderability 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 applicated for manual handling and processing by machinery
- 6) Resistors for protection are obligatory

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