



ENGLISH

Product Datasheet

PBL Pushbutton Switches





Specification:

SWITCH TYPE:		Pushbutton
POLES/THROWS:		SPST
SWITCH FUNCTIONS:		OFF-ON
ELECTRICAL CHARACTERISTICS	CONTACT RATING:	MAX. 0.1Amps @ 30VDC
	ELECTRICAL LIFE:	50,000 make-and-break cycles at full load
	CONTACT RESISTANCE:	50m-ohms max. initial @ 1.5VDC, 100mA
	INSULATION RESISTANCE:	Apply 500VDC for 1min±5sec. After which measurement to be made b/w terminals shall result 100M-ohms min.
	DIELECTRICAL STRENGTH:	500VAC (50Hz-60Hz) RMS @ sea level shall result no damage to parts arcing or flashover
	OPERATING TEMPERATURE:	-40Celsius degree to +85Celsius degree
RELAIBILITY PERFORMANCE	MECHANICAL LIFE:	Without load, 50,000cycles min.
	OPERATING FORCE:	250±100gf max.
	COLD TEST:	Stored at temperature -40(+/-3)Celsius degree for 96 hours, shall result no changes to switch's electrical performance.
	HOT TEST:	Stored at temperature +85(+/-3)Celsius degree for 96 hours, shall result no changes to switch's electrical performance.
	HUMIDITY TEST:	Stored at temperature 40(+/-2) Celsius degree with relative humidity 90%~95% for 96 hours, shall result no changes to switch's electrical performance.



MATERIAL CHARACTERISTICS	CAP	PC
	CASE & HOUSING	Nylon 6/6
	TERMINALS	Copper alloy with gold plated
SOLDERING & CLEANING RECOMMENDATION	HAND SOLDERING:	Max. temperature @ 350±5 Celsius degree with continuous soldering time @ 5±1sec. max.
	CLEANING PROCESS:	Noted, the switch is “not totally sealed” so it is important not to immerse/spray or clean unsealed areas of the switch during flux removal. Improper cleaning could cause switch deficiencies such as intermittence or open contact failures
PACKAGE IDENTIFICATIONS	INTERNAL PACKAGING:	100pcs per bag
	RoHS IDENTIFICATIONS	A label marking “RoHS compliant” will be attached to the carton box.

LED Electro-Optical Characteristics:

Model	Colour	Dominant Wavelength (λD)	IF=20mA VF(v) TYP.	IF=20mA VF(v) MAX.	IF=20mA IV(mcd) Min.	IF=20mA IV(mcd) TYP.	Viewing Angle 2θ1/2=* °IF=5mA A=5V	Lens Type
PB Lock	Super White	X:0.31 Y:0.31	3.30	4.00	900	1500	45°	Water Clear
	Super Red	630	1.95	2.50	700	1300	45°	Water Clear
	Yellow	588	2.10	2.50	12	25	45°	Water Clear
	Amber	590	2.00	2.50	400	700	45°	Water Clear
	Super Green	570	2.10	2.50	100	300	45°	Water Clear



Super Blue	470	3.30	4.00	700	1300	45°	Water Clear
Pure Green	525	3.30	4.10	2700	3500	30°	Water Clear
Super Red+	630	1.95	2.5	400	800	60°	Water Clear
Super Green	570	2.1	2.5	30	80		
Amber + Super Green	590	2.0	2.5	300	600	60°	Water Clear
	570	2.1	2.5	30	80		
Super Green + Amber	570	2.1	2.5	30	80	60°	Water Clear
	590	2.0	2.5	300	600		
Super Blue+ Super Green	470	3.3	4.0	80	160	60°	Water Clear
	570	2.1	2.5	30	80		

RS P/N

820-7521	Led colour: RED
820-7527	Led colour: WHITE
820-7530	Led colour: YELLOW
820-7533	Led colour: GREEN
820-7537	Led colour: BLUE
820-7546	Led colour: BLUE(GREEN)

