

D2*2Bypass Relay Mechanical Switch Specification

1. Product Information

D2*2B bypass relay mechanical switch. ROS-D2×2B-T1-1216-5N-G657A1-904-00 Non-latching 3V ,
1260~1650nm G657A1 Fiber , 900um loose tube pigtail, 27*12*8.2mm packaging.

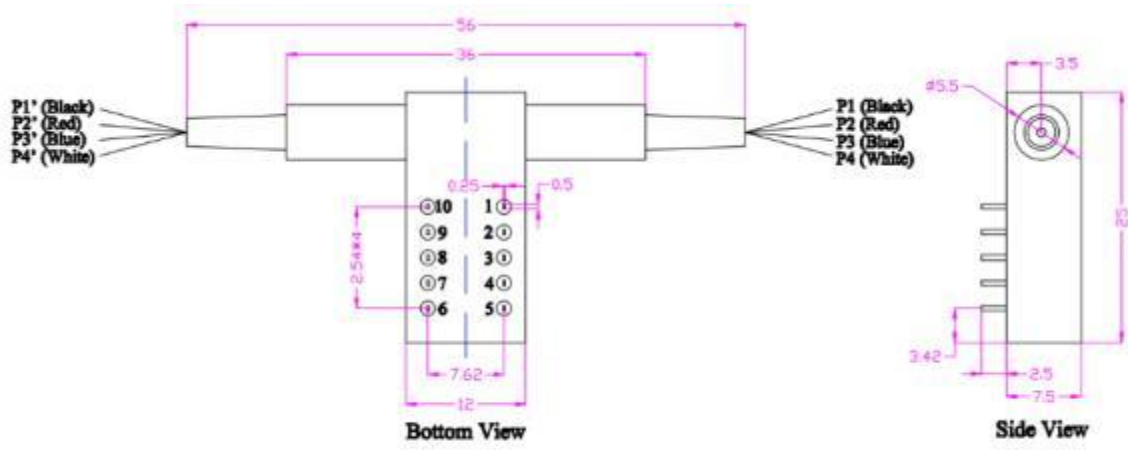
2. Optical Performance Specifications

Optical Parameters			Unit	Specifications
Operating Wavelength			nm	1260~1620 for SM,850~1300 for MM
Connector type				Per customer request
Insertion Loss@- 20~70°C	Max	dB	D2x2B	
	Type	dB	≤0.7	
Wavelength Dependent Loss			Max	dB
				0.25
Polarization Dependent Loss			Max	dB
				0.05
Temperature Dependent Loss			Max	dB
				0.2
Return Loss			Min	dB
				SM≥50, MM≥30
Crosstalk			Min	dB
				SM≥55, MM≥30
Repeatability			Max	dB
				0.03
Switch Time			Max	ms
				5
Durability			Min	times
				10 million
Operating Voltage			Max	V
				5.0 or 3.0
Power Handling			Max	mw
				500
Operating Temperature				°C
				-20 ~ 70
Storage Temperature				°C
				-40 ~ 85
Operation Humidity				%RH
				5 to 95%RH

Note: 1.Within operating temperature and all SOP.

2.Insertion loss xcluding connector.

3. Dimensions Diagram



4. Pin :

Type	Optical Path	Electric Drive	Status Sensor								
D2x2B			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9	
Non-Latching	A(不加电)	P1-P3'	--	--	--	--	Close	Open	Open	Close	3V non latching
		P2-P4'									
	B (加电)	P1-P1,	V+	--	--	GND	Open	Close	Close	Open	
		P2-P2,									
P3-P3,											
P4-P4'											

	Specification	Voltage	Current	Resistance
5V	Latching	4.5~5.5V	36~44mA	125Ω
5V	Non-Latching	4.5~5.5V	26~32mA	175Ω
3V	Latching	2.7~3.3V	54~66mA	50Ω
3V	Non-Latching	2.7~3.3V	39~47mA	70Ω

5. Reliability Requirement

NO.	Test Items	Test condition	Reference
1	Vibration	20G, 20-2,000 Hz min/cy, 4 min/cycle, 4 cycles/axis, 3 directions	GR-1221-CORE Sec. 6.2.2
2	Mechanical Shock	5 times/direction, 6 directions, 500 G, 1 ms	GR-1221-CORE Sec. 6.2.1
3	Twist Test	0.45kg, 10times	GR-1073-CORE Sec. 5.2.2.2
4	Side pull Test	0.45kg, 90deg, 2 directions 2s	GR-1073-CORE Sec. 5.2.2.3
5	Tensile Test	1.0kg, 3times 5s	GR-1073-CORE Sec. 5.2.2.4
6	Damp Heat	85°C/85%RH 2000 hrs.	GR-1221-CORE Sec. 6.2.5 e
7	High Temp. Storage (dry)	85°C(±2°C), RH<40% 2000 hrs.	GR-1221-CORE Sec 6.2.4
8	Low Temp. Storage	-40°C (±5°C) 2000 hrs.	GR-1221-CORE Sec 6.2.6
9	Temperature Cycling	-40°C to +85°C(±2°C) Dwell time ≥ 15 minutes 500 cycles Temperature change rate ≥ 1°C/minute	GR-1221-CORE Sec. 6.2.7
10	Thermal Shock	Temperature Range: ΔT = 100°C (0°C to 100°C), liquid-to-liquid Dwell Times: ≥ 5 minutes at temperature extremes Transfer Time: ≤ 10 seconds Number of Cycles: 15	GR-1221-CORE Sec 6.2.3

6. ROHS

Pb:	<1000ppm
Cd:	<100ppm
Hg:	<1000ppm
Cr+6:	<1000ppm
PBBs:	<1000ppm
PBDEs:	<1000ppm

7. Packaging

Label:



Image:

