

WDM Fiber Optic Couplers

08991 Standard Dual Window Coupler (1310/1550)



EZZ adopts the FBT technique to produce the SM coupler with the high performance and liability which achieve the advanced level of similar products in the world. The extremely low excess loss greatly increases the coupler's liability and long-term stability

Features:

- Various coupling ratio
- Single mode and multi mode available
- Low insertion loss, low PDL
- Environmental stable
- Industry standard and custom housing available
- Variety of connectors available
- 1x2, 1x4 and 1x n customized couplers available

Applications:

- Optical communication system
- System and signal monitoring
- CATV Systems & Fiber Sensors
- Fiber to the home (FTTH)
- Network redundancy
- Laser splitting

Specification

Type	Standard Dual Window Coupler			
Central Wavelength/Bandwidth (nm)	1310/1550nm \pm 40			
Coupling Ratio (%)	1~50			
Typical Excess Loss (dB)	0.15			
Typical Insertion Loss	3.6			
PDL (dB)	0.10			
Directivity (dB)	55			
Temperature Coefficient (dB/ $^{\circ}$ C)	0.002			
Operating Temperature ($^{\circ}$ C)	-40~+85			
Storage Temperature ($^{\circ}$ C)	-40~+85			
Max Operating Power (mw)	300			
Max Tensile Strength (N)	5			
Max Insertion Loss (dB)	1x4	1x8	1x16	1x32
	7.0	10	13.5	17.0
Insertion Loss Uniformity (dB)	1x4	1x8	1x16	1x32
	1.6	1.8	2.4	3.0
Industry Standard	Telcordia GR-1221-CORE			

Test Conditions for Reliability	
High Temperature Test	85 \pm 2 $^{\circ}$ C, 5000 hours
Humidity and Heat Test	75 \pm 2 $^{\circ}$ C/90 \pm 5%RH, 5000 hours
Low Temperature Test	-40 \pm 5 $^{\circ}$ C, 5000 hours
Soaking Test	43 \pm 2 $^{\circ}$ C/PH5.5 \pm 0.5, 168 hours
Temperature Cycle Test	-40 \pm 2 $^{\circ}$ C to 85 \pm 2 $^{\circ}$ C, 500 cycles
Vibration Test	10Hz to 2000Hz, vibration range 1.52mm, 3directions, 4hours/direction
Impact Test	1.8m high, 3 directions, 8times/direction