

620 Series SM WDM

Wavelength Division Multiplexers (WDMs)

Overview

ARIA's singlemode wave division multiplexers combine or separate light at two different wavelengths with high isolation and low insertion loss.

These WDM products have minimum polarization dependence and are completely bi-directional.

Various type of pigtails and connectors terminals are also available.



Features

- Low insertion loss
- Polarization insensitive
- Bi-directional
- Environmentally stable and reliable

Applications

- Optical fiber amplifiers
- Telecommunications
- CATV
- Subscriber loop
- Fiber-to-the-home
- Local Area Network (LAN)
- Test equipment

Specifications

Parameter	Value		Value		Value	
Wavelength (nm)	980/1550		1310/1550(Std)		1310/1550(H)	
Grade	P	H	P	H	P	H
Insertion Loss (dB) (Max)	0.4	0.6	0.4	0.6	0.8	1.0
Isolations (dB) (Min)	20	18	17	16	34	32
Wavelength Bandwidth (nm)	10	10	15	15	15	15
Polarization Dependant Loss (dB)(Max)	0.1	0.15	0.1	0.15	0.1	0.20
Directivity (dB) (Min)	60	60	60	60	60	60
Temperature Coef(dB/C)	0.002	0.002	0.002	0.002	0.002	0.002
Operation Temperature (C)	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-40 to +85	-40 to +85
Storage Temperature	-50 to +85	-50 to +85	-50 to +85	-50 to +85	-50 to +85	-50 to +85

Environmental Reliability Tests

- Complies with Telcordia requirement TR-NWT-001221 & TR-NWT-001209. Tests Optical characteristics, Thermal Cycling, Vibration Test, Salt Spray Erosion, Thermal Aging, and Humidity Resistance.
- High Temperature Storage Test: 85°C for 5000 hours
- Low Temperature Storage Test: -40°C for 5000 hours
- Thermal Cycling Test: -40°C/75°C for 500 cycles
- Fiber Pulling Test: 0.23 Kg
- Water Immersion Test: 43°C, pH=5.5, 340 hours
- Vibration Test: 10~2000 Hz random , 20g, 3 axes
- Impact Test: 8 drops, 1.8 meters high
- Thermal Shock Test: 100°C

Part Number

620-
1 1 2 2 2 3 3 4 5 6 6 7 7

1 Wavelength
 35 = 1310/1550
 95 = 980/1550

3 Port Number
 12 = 1x2
 22 = x2

6 Tail Length
 05 = .05m
 10 = 1.0m
 15 = 1.5m
 20 = 2.0m

4 Fiber & Package
 01 = 250u bare fiber, stainless steel tube
 02 = 900u loose tube fiber, stainless steel tube
 03 = 3mm cabled fiber, ruggedized case
 04 = 250u bare fiber, ruggedized case
 05 = 900u loose tube fiber, ruggedized case

2 Isolation
 S = Standard
 H = High*
 *(Built with concatenated structure)

5 Grade
 P = Premium
 H = High
 A = Average

7 Connectors
 LC = LC/UPC
 SC = SC/UPC
 FA = FC/APC
 SA = SC/APC
 ST = ST/UPC
 0 = None
 XX = Other

Example: 2x2 premium grade SM standard WDM for 1310/1550 nm light, 250u buffered fiber packaged in stainless steel tube and terminated with SC connectors, tail length 1 meter. Part Number: 620-35-S-22-01-P-10-SC/SC