



Splitters, Couplers and WDM Solutions

DESCRIPTION

Coarse wavelength division multiplexing (CWDM) is a method of combining multiple signals on laser beams at various wavelengths for transmission along fiber optic cables, such that the number of channels is fewer than in dense wavelength division multiplexing (DWDM) but more than in standard wavelength division multiplexing (WDM).

FEATURES:

- Low Insertion Loss
- High Isolation
- Low PDL
- Compact Design
- · Good channel-to-channel uniformity
- Wide Operating Wavelength: From 1260nm to 1620nm
- Operating Temperature: From -40°C to 85°C
- High Reliability and Stability

- CWDM System
- CATV Links

COMPLIANCE

- Telcordia GR-1209-CORE-2001
- Telcordia GR-1221-CORE-1999
- RoHS

APPLICATIONS

PON Networks

SPECIFICATIONS

OPTICAL SPECIFICATION							
Item	Parameters	Min	Typical	Max	Unit	Note	
1	Operating Wavelength Range, λΟΡ	1260~1650 nm					
2	Configuration See	P/N					
3	Split Ratio	even			%		
4	Insertion Loss	See Table 1			dB		
5	Uniformity dB						
6	PDL			dB			
7	Directivity 55				dB		
8	Return Loss	50	, * ,		dB		
9	Power Handling			300	mW		

TABLE 1			
Configuration	Max IL	Uniformity	Max PDL
1×2	4.3	0.5	0.2
2×2	4.3	0.8	0.2
1×4	7.4	0.8	0.3
2×4	7.6	1.0	0.3
1×8	10.7	1.0	0.3
2×8	11.0	1.2	0.3
1×16	13.9	1.4	0.3
2×16	14.8	1.5	0.3
1x24	16.5	1.5	0.3
1×32	17.2	1.6	0.3
2×32	17.9	1.8	0.3
1×64	21.5	2.0	0.5
2×64	21.5	2.0	0.5





ENVIRONMENT CONDITIONS						
Item	Parameters	Min	Typical	Max	Units	Note
1	Operating Temperature	0		75	°C	
2	Storage Temperature	-40		85	°C	
3	Operating Relative Humidity	0		93	%	[1]
4	Storage Relative Humidity	0		93	%	

Note

[1] Not to exceed industrial standard of 0.024 kg water per kg of dry air. Under Non-condensing Conditions. Operation standard: GR-1209 and GR-1221

MECHANICAL SPECIFICATIONS					
Item	Parameters Specifications		Units	Note	
1	Packaging Dimensions	See Table 2 (ABS Box)	mm		
2	Fiber Type	See P/N			
3	Fiber Length	See P/N	m		
4	Connector Type	See P/N			

TABLE 2			· ·		
Configuration	Package Dimension				
Comiguration	900μm Loose Tube	2.0mm Cable	3.0mm Cable		
1×2 / 2×2	90×20×9.5 mm	90×20×9.5 mm	90×20×9.5 mm		
1×4 / 2×2	100×80×10 mm	100×80×10 mm	100×80×10 mm		
1×8 / 2×8	100×80×10 mm	100×80×10 mm	100×80×10 mm		
1×16 / 2×16	120×80×18 mm	120×80×18 mm	141×115×18 mm		
1×32 / 2×32	141×115×18 mm	120×80×18 mm	141×115×18 mm		
1×64 / 2×64	141×115×18 mm	141×115×18 mm	-		

