

Optoelectronics

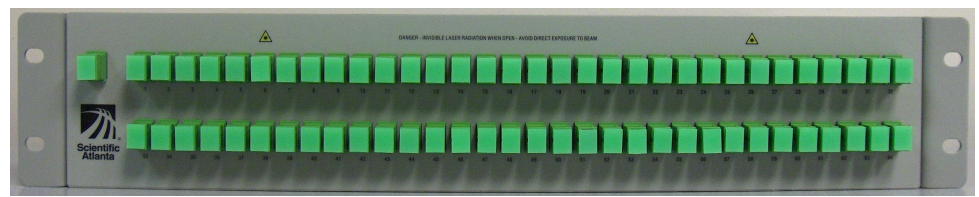
Prisma® Singlemode Multiband Couplers/Splitters

Description

Prisma® Singlemode Multiband Couplers/Splitters provide consistent performance with low insertion loss and polarization sensitivity. Available at the component level, mounted in LGX-compatible, or rack-mounted modules, these couplers/splitters are easy to handle and provide accurate and reliable transmission.

Features

- Available in component level or packaged in industry standard LGX-compatible or rack-mounted modules
- Various connector options
- Complete set of split ratios available
- Low insertion loss



Prisma Singlemode Multiband Couplers/Splitters

Specifications

Description	Units	Common Specifications			Notes
Center Wavelengths	nm	1310 & 1550			
Bandpass	nm	± 20 @ 1310 and 1550			
Fiber Type (unconnectorized only)		Single mode, 250 μm bare fiber			
Operating Temperature	°C / °F	-5 to +65 / +23 to +149			
Storage Temperature	°C / °F	-40 to +85 / -40 to +185			
Directivity	dB	≥ 55			
Optical Return Loss					
Unconnectorized	dB	≥ 55			
SC/UPC connector	dB	≥ 55			
SC/APC connector	dB	≥ 60			
Physical Dimensions					
(maximum unless otherwise specified)					
<u>Packaged and Connectorized</u>					
<i>LGX-compatible modules</i>					
Faceplate		<u>1-Wide*</u>	<u>2-Wide**</u>	<u>3-Wide***</u>	
Height	mm / in.	130.5/5.14	130.5/5.14	130.5/5.14	
Width	mm / in.	29.26/1.15	59.26/2.33	89.26/3.51	
Coupler Enclosure					
Height	mm / in.	98.5/3.88	98.5/3.88	98.5/3.88	
Width	mm / in.	26.52/1.04	56.52/2.23	86.51/3.41	
Overall Depth	mm / in.	127.51/5.02	127.51/5.02	127.51/5.02	
<i>Rack Mount</i>					
Height	mm / in.	<u>1 RU (1x32)</u>	<u>2 RU (1x64)</u>		
Width	mm / in.	44.5/1.75	88.1/3.47		
Depth	mm / in.	482.6/19	482.6/19		
Depth	mm / in.	304.8/12	304.8/12		
<u>Packaged and Unconnectorized</u>					
<i>1x2 component</i>					
Diameter	mm / in.	3.0/0.12			
Length	mm / in.	55/2.17			

* 1-wide LGX module includes 1x2, 1x2 dual, 2x2, 2x4, 1x3, 1x4, 1x5 couplers/splitters

** 2-wide LGX module includes 1x6, 1x7, 1x8, 1x10 couplers/splitters

*** 3-wide LGX module includes 1x12, 1x16 couplers/splitters

Specifications and Part Numbers

LGX Style		Max Insertion Loss (dB) Includes Connector Loss +/-20nm, -20 to +65C		Max Uniformity (dB)	Part Number		
Configuration	Split ratio	Thru	Tap		LGX-Compatible SC/APC	LGX-Compatible SC/UPC	Unconnectorized (component)
1x2	50/50	4.00	4.00	0.7	187151	187161	591535
	55/45	3.60	4.50		187150	187160	591534
	60/40	3.20	5.00		187149	187159	591533
	65/35	2.75	5.60		187148	187158	591532
	70/30	2.55	6.30		187147	187157	591531
	75/25	2.15	7.00		187146	187156	591530
	80/20	1.80	8.10		187145	187155	591529
	85/15	1.50	9.30		187144	187154	591528
	90/10	1.30	11.25		187143	187153	591527
	95/5	1.05	14.35		187142	187152	591526
1x2 Dual	50/50	4.00	4.00	0.7	713961	713971	
2x2	Even	4.00	4.00	1	739665		
2x4	Even	7.70	7.70	1	713970		
1x3	Even	6.3 / 6.3 / 6.3		1.5	187134		
	35/35/30	5.3/5.3/5.9*			4003494		
	40/30/30	4.6/5.9/5.9*			4003495		
	50/25/25	3.6/6.7/6.7*			4003496		
	40/40/20	4.9/4.9/7.8*			4003497		
	60/20/20	2.8/7.7/7.7*			4003498		
1x4	Even	7.60		1.5	187135		
1x5	Even	8.95		1.5	713967		
1x6	Even	9.90		1.5	713973		
1x7	Even	10.90		1.5	713968		
1x8	Even	11.20		2	713974		
1x10	Even	13.30		2	713975		
1x12	Even	13.50		2	713976		
1x16	Even	14.90		2	713977		

Rack Mount		Max Insertion Loss (dB) Includes Connector Loss +/-20nm, -20 to +65C	Max Uniformity (dB)	Part Number (SC/APC)
Configuration	Split ratio			
1x32 (1 RU)	Even	18.0	2.5	4011485
1x64 (2 RU)	Even	21.5	2.5	4011486

* Typical insertion loss