

SPEC for Coupler 2x2

PN		Description	2x2 Coupler, XX=Tap Ratio
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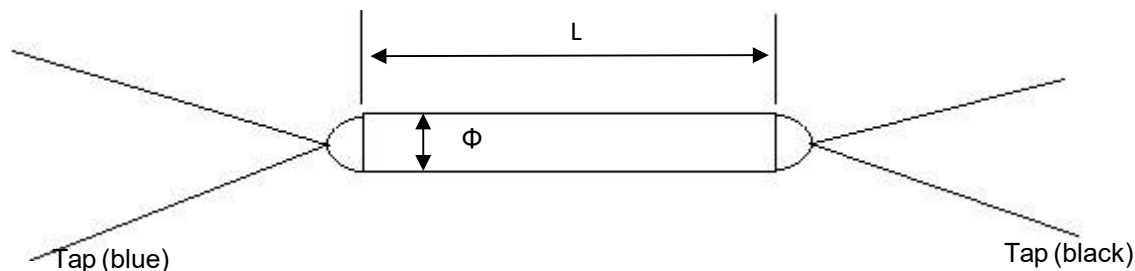
Version	ECO change description	Prepared	Approved	Date
A0	/			
A1	/			
A2	Water peak update; Add 30mm package			

Specification

Parameters		Unit		SPEC			
Model				ABC			
Operating Wavelength			nm	<u>1260-1360,1430-1640</u> ^{note a}		1360-1420	
Package Dimension($\Phi \times L$)			mm	3.0x40	<u>3.0x30</u>	3.0x40	<u>3.0x30</u>
Insertion Loss	50/50	Max	dB	3.60/3.60	<u>3.70/3.70</u>	3.80/3.80	<u>3.85/3.85</u>
	45/50			4.20/3.20	<u>4.25/3.20</u>	4.45/3.45	<u>4.55/3.55</u>
	40/60			4.70/2.70	<u>4.75/2.80</u>	5.10/3.10	<u>5.20/3.20</u>
	33/67			5.70/2.20	<u>5.75/2.25</u>	6.00/2.55	<u>6.10/2.65</u>
	30/70			6.00/1.90	<u>6.25/2.00</u>	6.40/2.30	<u>6.50/2.40</u>
	25/75			7.00/1.70	<u>6.95/1.75</u>	7.25/2.10	<u>7.35/2.15</u>
	20/80			7.90/1.30	<u>8.00/1.40</u>	8.30/1.60	<u>8.40/1.70</u>
	15/85			9.50/1.00	<u>9.60/1.10</u>	9.65/1.35	<u>9.75/1.45</u>
	10/90			9.2~11.00/0.75	<u>11.10/0.85</u>	9.20~11.50/1.05	<u>11.60/1.15</u>
	5/95			12.05~14.15/0.40	<u>14.25/0.50</u>	12.05~14.60/0.80	<u>14.70/0.90</u>
	3/97			14.1~16.50/0.35	<u>16.60/0.45</u>	14.10~17.00/0.75	<u>17.10/0.85</u>
	2/98			15.75~18.45/0.3	<u>18.80/0.40</u>	15.75~18.80/0.70	<u>18.80/0.80</u>
	1/99			18.5-20.7/0.25	<u>20.7/0.35</u>	18.50-21.00/0.65	<u>21.00/0.75</u>
PDL		Max	dB	0.15	<u>0.18</u>	0.15	<u>0.18</u>
Return Loss		Min	dB	55			
Directivity		Min	dB	55			
PMD		Max	ps	0.1			
Operating Humidity			%	5~95			
Tensile Strength		Min	N	5			
Fiber Type				G657.A1			
Fiber Length			m	<u>1.2$\pm$0.1</u>			
Connector Type				/			
Power Handling			mW	500			
Operating Temperature			°C	-40 ~ +85			
Storage Temperature			°C	-40 ~ +85			
Package Dimension($\Phi \times L$)		Max	mm	<u>3.0x40 or 3.0x30</u>			

Note a: Water peak 1420nm Insertion Loss add 0.05dB than 1430nm.

Configuration



Note:

1. Fiber mark: Mark blue, black for each Tap port starting at 5-10cm away from the device body to fiber end.
2. Test data:
E-data needs to be provided with the whole temperature (-40,23,85 °C) testing conditions.
3. Label & Package:
With SN on the device body.
The Package must be safe and strong enough to avoid damage during long distance transportation.
4. Device appearance inspection: Refer to incoming inspection documents.
5. RoHS 6, Telcordia GR-1221-Core and GR-1209 -Core Compliant.

Table 1: PN & Tap Ratio refer to the example as followings

PN	Tap Ratio	Description
	<u>1/99</u>	<u>2X2 Coupler 1/99, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x40mm steel tube size</u>
	<u>2/98</u>	<u>2X2 Coupler 2/98, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x40mm steel tube size</u>
	<u>3/97</u>	<u>2X2 Coupler 3/97, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x40mm steel tube size</u>
	<u>50/50</u>	<u>2X2 Coupler 50/50, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x40mm steel tube size</u>
	<u>1/99</u>	<u>2X2 Coupler 1/99, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x30mm steel tube size</u>
	<u>2/98</u>	<u>2X2 Coupler 2/98, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x30mm steel tube size</u>
	<u>3/97</u>	<u>2X2 Coupler 3/97, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x30mm steel tube size</u>
	<u>50/50</u>	<u>2X2 Coupler 50/50, 1260-1640nm, 250um fiber, 1.2m length, no connector, Corning SMF-28® Ultra bending insensitive fiber, Φ3.0x30mm steel tube size</u>