

Optical Passives (ISP)

OP35F1x-CF

Red/Blue, CWDM/DWDM, and DWDM Channel Group Combiner/Separator Filters

FEATURES

- 3-port filters to combine or separate red and blue (or CWDM and DWDM) bands
- Low insertion loss
- SC/APC connectors ensure performance repeatability, compatibility and easy installation and maintenance
- · Removable adapters for easy cleaning
- · Options for standard or high isolation
- Optional line monitoring tap
- · Occupies one half-depth slot



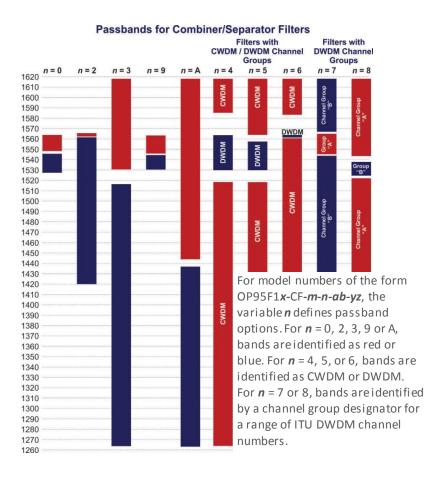
PRODUCT OVERVIEW

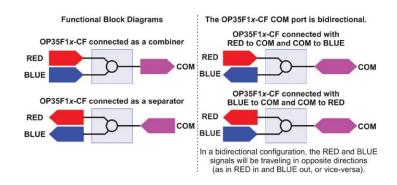
Fiber-Deep

ARRIS OP35F1x-CF series of combiner/separator filters are 3-port filters that combine (or separate) red and blue (or CWDM and DWDM) bands. The various available band combinations are shown graphically on the following page. In addition to packages containing a single filter, dual-filter packages are also available, and both single- and dual-packaged filter modules are also available with an optional -20 dB tap for monitoring. These filters are designed to be used in controlled indoor environments within a temperature range of -20° to +65°C.

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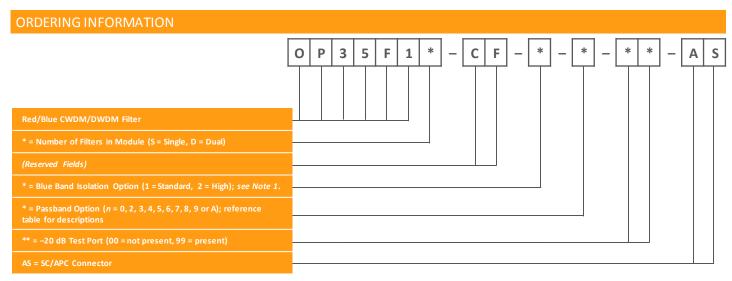






SPECIFICATIONS					
Characteristics	Spec	cificati	on		
Physical	o pot				
Dimensions	6.5" D	x 5.2" H	1 x 1.0" W (3RU) (16.5 cm x 13 cm x 2.5 cm)		
Weight	0.8 lbs	(0.36 k	g)		
Environmental					
Operating Temperature Range	–20°C	to +65°	C (-4°F to +149°F)		
Storage Temperature Range			C (-40°F to +185°F)		
Humidity	5% to	95% no	n-condensing		
Optical		_			
Optical connectors	SC/AP	С	0.50	2115	
Passbands (nm) (specified for values of <i>n</i> in model numbers of the form OP35F1x-CF-m- <i>n</i> -ab-AS)	n		RED	BLUE	
	0		1549.0-1563.8	1528.0-1545.6	
	2		1562.6-1565.0	1420.0-1561.0	
	3		1530.0-1618.0	1264.0-1517.0	
	9		1546.7-1561.7 (Chs 20-38)	1530.1-1544.0 (Chs 42-59)	
	А		1443.5-1617.5	1263.5-1437.5	
	n		CWDM (or RED)	DWDM (or BLUE)	
	4		1263.5-1519.0 and 1585.0-1617.5	1530.0-1563.3	
	5		1423.5-1519.0 and 1563.5-1617.5	1530.0-1558.4	
	6		1423.5-1561.0 and 1583.5-1617.5	1562.0-1564.0	
	n		DWDM Channel Group "A"	DWDM Channel Group "B"	
	7		1545.7-1565.1 (Chs 18-39)	1423.5-1542.4 and 1568.4-1617.5 (Chs 44-59	
	8	1	423.5-1520.8 and 1542.8-1617.5 (Chs 18-43)	1524.3-1539.2 (Chs 48-59)	
Ripple within passband	0.5 dE	3			
Insertion losses, including connectors		Max (and typical) values, in dB, shown for models without and with -20 dB line monitoring taps ($yy = 00$ and 99 , respectively) and with standard or high isolation ($m = 1$ and 2 , respectively)			
			BLUE to COM	RED to COM	
	n	m	yy = 00 yy = 99	yy = 00 yy = 99	
	0	1	0.6 (0.4) 0.9 (0.7)	0.5 (0.3) 0.8 (0.6)	
		2	1.0 (0.8) 1.3 (1.1)	0.5 (0.3) 0.8 (0.6)	
	2,3	1	0.5 (0.3) 0.8 (0.6)	0.6 (0.4) 0.9 (0.7)	
		2	0.5 (0.3) 0.8 (0.6)	1.0 (0.8) 1.3 (1.1)	
	9,A	1	0.5 (0.3) 0.8 (0.6)	0.6 (0.4) 0.9 (0.7)	
			DWDM to COM	CWDM to COM	
	n	m	yy = 00 yy = 99	<i>yy</i> = 00 <i>yy</i> = 99	
	4,5,6	1	0.6 (0.4) 0.9 (0.7)	0.5 (0.3) 0.8 (0.6)	
			Ch. Group "B" to COM	Ch. Group "A" to COM	
	n	m	yy = 00 yy = 99	<i>yy</i> = 00 <i>yy</i> = 99	
	7,8	1	0.6 (0.4) 0.9 (0.7)	0.5 (0.3) 0.8 (0.6)	
Power handling, max (any input port)	24.8 d				
Directivity, min	55 dB				
Return loss, min	50 dB				
Polarization dependent loss, max		0.15 dB (< 0.1 dB typ)			
Isolation	Minim	num valu	es, in dB, shown for models with standard or h	igh isolation (<i>m</i> = 1 and 2, respectively)	
	n	m	BLUE to COM	RED to COM	
	0	1	> 25	> 15	
		2	> 50	> 15	
	2,3	1	> 15	> 25	
		2	> 15	> 50	
	9,A	1	> 15	> 25	
	n	m	DWDM to COM	CWDM to COM	
	4,5,6	1	> 25	> 15	
	n	m	Ch. Group "B" to COM	Ch. Group "A" to COM	
	7,8	1	> 25	> 15	
–20 dB tap monitoring option (yy = 99)	10/ hi	1% bi-directional test point for output/input from/to COM port			





Note:

1. The high isolation option is available only for Passband Options 0 and 2.

RELATED PRODUCTS	
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Optical Transmitters	Optical Passives
HPON™	Installation Services

Customer Care

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Note: Specifications are subject to change without notice.

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87-10361-RevG_OP35F1x-CF_CustomOpticalFilters

08/2016 ECO10750

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