

Optical Passives (ISP)

NP35C0x

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
- Telcordia GR-1209 and GR-1221 qualified
- · Occupies one half-depth slot
- LGX chassis-compatible
- Replaces OP35F1x-CF



PRODUCT OVERVIEW

ARRIS NP35C0x 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 pages. 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 $+65^{\circ}$ C.

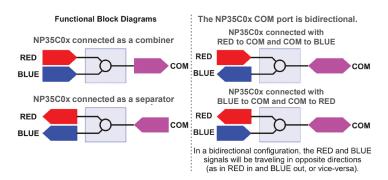
© 2019 CommScope, Inc. All rights reserved

Ask us about the complete Access Technologies Solutions portfolio:

ISP-NP35C0x

FTTx



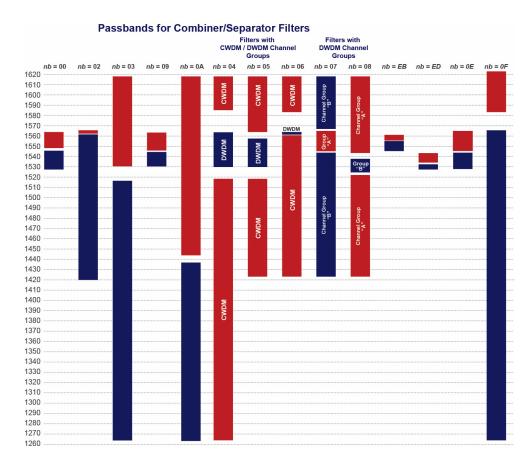


SPECIFICATIONS						
Characteristics	Specificatio	on				
Physical						
Dimensions	6.5" D x 5.2" H x 1.0" W (3RU) (16.5 cm x 13 cm x 2.5 cm)					
Weight	0.8 lbs (0.36 kg)					
Environmental						
Operating Temperature Range	-20° to +65°C (-4° to +149°F)					
Storage Temperature Range	-40° to +85°C (-40° to +185°F)					
Humidity	5% to 95% noi	n-condensin	g			
Optical						
Optical connectors	SC/APC					
Passbands (nm) (specified for values of <i>n</i> in model numbers of the form NP35C0pS <i>nb</i> Z <i>mY</i> -0Lx-AS)	nb		RED	BLUE		
	00		1549.0-1563.8	1528.0-1545.6		
	02		1562.6-1565.0	1420.0-1561.0		
	03		1530.0-1618.0	1264.0-1517.0		
	09		1546.7-1561.7 (Chs 20-38)	1530.1-1544.0 (Chs 42-59)		
	0A		1443.5-1617.5	1263.5-1437.5		
	0E		1546.0-1562.4 (Chs 19-39)	1527.1-1542.3 (Chs 44-63)		
	OF		1583.5-1655.0	1263.5-1564.8		
	EB		1556.430-1560.731	1545.994-1555.065		
	ED		1534.125-1542.267	1527.869-1532.023		
	nb		CWDM (or RED)	DWDM (or BLUE)		
	04		1263.5-1519.0 and 1585.0-1617.5	1530.0-1563.3		
	05		1423.5-1519.0 and 1563.5-1617.5	1530.0-1558.4		
	06		1423.5-1561.0 and 1583.5-1617.5	1562.0-1564.0		
	nb		DWDM Channel Group "A"	DWDM Channel Group "B"		
	07		1545.7-1565.1 (Chs 18-39)	1423.5-1542.4 and 1568.4-1617.5 (Chs 44-5		
	08	1/123	.5-1520.8 and 1542.8-1617.5 (Chs 18-43)	1524.3-1539.2 (Chs 48-59)		
Ripple within passband (dB), max	0.5	1425	.5 1520.0 and 1542.0 1017.5 (ch3 10 45)	1324.3 1333.2 (Clis 40 33)		
Insertion losses (dB) max (typ), including connectors	Without and with –20 dB line monitoring taps (<i>m</i> = 0 or 1, respectively) and with standard or high isolation (<i>Y</i> = S or H, respectively)					
	nb	m	BLUE to COM	RED to COM		
	00	0	0.6 (0.4) (Y = S), 0.9 (0.7) (Y = H)	0.5 (0.3) (Y = S), 0.8 (0.6) (Y = H)		
		1	1.0 (0.8) (Y = S), 1.3 (1.1) (Y = H)	0.5 (0.3) (Y = S), 0.8 (0.6) (Y = H)		
	02	0	0.5 (0.3) (Y = S), 0.8 (0.6) (Y = H)	0.6 (0.4) (Y = S), 0.9 (0.7) (Y = H)		
		1	0.5 (0.3) (Y = S), 0.8 (0.6) (Y = H)	1.0 (0.8) (Y = S), 1.3 (1.1) (Y = H)		
	03, 09, 0A	0	0.5 (0.3) (Y = S), 0.8 (0.6) (Y = H)	0.6 (0.4) $(Y = S)$, 0.9 (0.7) $(Y = H)$		
	EB,ED	0				
	OE	0	0.5 (0.3) (Y = S)	0.7 (0.5) (Y = S)		
			0.5 (0.3) (Y = S)	0.6 (0.4) (Y = S)		
	OF .	0	0.6 (0.4) (Y = S)	0.5 (0.3) (Y = S)		
	nb	m	DWDM to COM	CWDM to COM		
	04, 05, 06	0	0.6 (0.4) (Y = S), 0.9 (0.7) (Y = H)	0.5 (0.3) (Y = S), 0.8 (0.6) (Y = H)		
	nb	m	Ch. Group "B" to COM	Ch. Group "A" to COM		
	07, 08	0	0.6 (0.4) (Y = S), 0.9 (0.7) (Y = H)	0.5 (0.3) (Y = S), 0.8 (0.6) (Y = H)		
Power handling, max (any input port)	24.8 dBm					
Directivity, min	55 dB					
Return loss, min	50 dB					

© 2019 CommScope, Inc. All rights reserved.



Characteristics	Specificati	Specification				
Optical (continued)						
Polarization dependent loss (dB), max (typ)	0.15 (0.1)					
Isolation (dB), min	Minimum values, in dB, shown for models with standard or high isolation (Y = S or H, respectively)					
	nb	Υ	BLUE to COM	RED to COM		
	00	S	25	15		
		Н	50	26		
	02	S	15	25		
		Н	26	50		
	03, 09, 0A	S	15	25		
	EB, ED	S	15	30		
	0E	S	25	15		
	OF	S	15	25		
	nb	Υ	DWDM to COM	CWDM to COM		
	04, 05, 06	S	25	15		
	nb	Υ	Ch. Group "B" to COM	Ch. Group "A" to COM		
	07, 08	S	25	15		
-20 dB tap monitoring option (<i>m</i> = 1)	Bi-directional test point for output/input from/to COM port					



For *nb* = 00, 02, 03, 09, 0A, EB, ED, 0E, or 0F, bands are identified as red or blue.

For **nb** = 04, 05, or 06, bands are identified as CWDM or DWDM.

For *nb* = 07 or 08, bands are identified by a channel group designator for a range of ITU DWDM channel numbers.

© 2019 CommScope, Inc. All rights reserved.

FTTx



ORDERING INFORMATION 5 C 0 Z Ν Р 3 0 * = Passband Option (nb = 00, 02, 03, 04, 05, 06, 07, 08, 09, 0A, 0E, 0F, EB, or ED); (See the table on the previous page for descriptions.) * = -20 dB Test Port (0 = not present, 1 = present (available with pass-band options nb = 00, 05, 06, 07, 08, and 09)) * = Blue Band Isolation Option (S = Standard, H = High) (The high-isolation option is available only for Passband Options nb = 00 and

RELATED PRODUCTS	
CH3000 Chassis	Optical Passives
Optical Transmitters	Installation Services
Optical Patch Cords	

Customer Care

Contact Customer Care for product information and sales:

- United States: 866-36-ARRIS
- International: +1-678-473-5656

Note: Specifications are subject to change without notice.

Copyright Statement: © 2019 CommScope, Inc. All rights reserved. ARRIS and the ARRIS logo are trademarks of CommScope, Inc. and/or its affiliates. All other trademarks are the property of their respective owners. No part of this content may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from CommScope, Inc and/or its affiliates ("CommScope"). CommScope reserves the right to revise or change this content from time to time without obligation on the part of CommScope to provide notification of such revision or change.

1510846-RevD_NP35C0x_CustomOpticalFilters

06/2019 EA-30167

ISP-NP35C0x