





## SPECIFICATIONS

Characteristics	Specification
<b>Physical</b>	
Dimensions	6.5" D x 4.3" H x 1.0" W (3RU) (16.5 cm x 11 cm x 2.5 cm)
Weight	1.5 lbs (0.7 kg)
<b>Environmental</b>	
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% non-condensing
<b>Optical (all models)</b>	
Return loss, min	45 dB
Passband for CWDM channels @ 0.15 dBc	13 nm
Passband for 1310 nm input @ 0.15 dBc (available only in OP34M5L-1 and OP34M5H-1)	1263.5–1357.5 nm
CWDM directivity, min	55 dB
1310 directivity, min	65 dB
1310-COM isolation, min	60 dB
Polarization dependent loss, max	0.15 dB (< 0.1 dB typ)
Ripple within passband	0.5 dB
Channel spacing	20 nm
Power handling, max (any input port)	21.8 dBm
<b>Wavelength Passbands Between INP and COM Ports</b>	
OP34M5V	1263–1357 nm (with five 13-nm-wide notches at 1270, 1290, 1310, 1330, and 1350 nm)
OP34M5L	1423–1617 nm (with five 13-nm-wide notches at 1430, 1450, 1470, 1490, and 1510 nm)
OP34M5H	1423–1617 nm (with five 13-nm-wide notches at 1530, 1550, 1570, 1590, and 1610 nm)
<b>Optical Interface</b>	
Optical connectors	SC/APC
Models OP34M5x-0-00-AS (x = V, L or H – Very Low, Low or High channel group)	<ul style="list-style-type: none"> <li>• COM (output to fiber network)</li> <li>• Wavelength xxxx (5 channels added)</li> </ul>
Models OP34M5x-1-00-AS (x = L or H – Low or High channel group)	<ul style="list-style-type: none"> <li>• COM (output to fiber network)</li> <li>• I/O to/from fiber network for 1310)</li> <li>• 1310 (input/output to/from fiber network for 1310 nm)<sup>1</sup></li> <li>• Wavelength xxxx (5 channels added)</li> </ul>
Models OP34M5x-0-99-AS (x = L or H – Low or High channel group)	<ul style="list-style-type: none"> <li>• COM (output to fiber network)</li> <li>• Wavelength xxxx (5 channels added)</li> <li>• TP -20 dB (1% tap, test point from COM)</li> </ul>
Models OP34M5x-1-99-AS (x = L or H – Low or High channel group)	<ul style="list-style-type: none"> <li>• COM (output to fiber network; I/O to/from fiber network for 1310)</li> <li>• 1310 (input/output to/from fiber network for 1310 nm)<sup>1</sup></li> <li>• Wavelength xxxx (5 channels added);</li> <li>• TP -20 dB (1% tap, test point from COM)</li> </ul>

### NOTE:

1. A 1310 nm I/O Port is provided on "L" and "H" models only. For cases in which a cascade of CWDM wavelengths that includes the 5 Very Low ("V") wavelengths is required, this port may be used to add those 5 wavelengths from the OUT port of a "V" model mux; see diagram on previous page.

### TABLE 1: INSERTION LOSS

	OP34M5x-0-00-AS	OP34M5x-1-00-AS	OP34M5x-0-99-AS	OP34M5x-1-99-AS
Insertion losses, max <sup>1</sup> (dB)				
Channel xxxx INP to COM	2.0	2.5	2.3	2.7
1310 to COM	N/A	1.1	N/A	1.3
INP to COM	1.7	2.2	2.0	2.4
Paired insertion loss <sup>2</sup>	2.8	3.7	3.3	4.3
COM to -20 dB Tap Ratio, max <sup>1</sup> (dB)	N/A	N/A	20.4	20.4

### NOTES:

1. Including connectors
2. Paired insertion loss when combined with 5-wavelength mux module from Ch. xxxx INP to Ch. xxxx OUT

ORDERING INFORMATION



- \* = Channel Group (V = "Very Low," 5 channels 1270–1350 nm; L = "Low," 5 channels 1430–1510 nm; H = "High," 5 channels 1530–1610 nm)
- \* = 1310 nm I/O Port [0 = not present, 1 = present (available only in OP34M5L and OP34M5H)]
- \*\* = -20 dB Test Port (00 = not present, 99 = present)

RELATED PRODUCTS

CH3000	OP94D5
OP34M5x	Installation Services

## 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.

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