

Features

- Single compact plug-in modules for NC4000 series Optical Nodes
- High density fiber interface with Elite MPO connectors
- Low insertion loss
- Dual operating wavelength windows (1310nm and 1550nm)
- High port-to-port uniformity

Optical Splitters with Balanced Outputs



Aurora Networks' OP41SxS series plug-in modules provide splitters with 8-, 16-, or 32-way balanced outputs for the VH4000 Virtual Hub and NC4000 series Optical Nodes. These compact designs, with 8-port Elite MPO connectors for the split outputs, feature very low insertion loss and high port-to-port uniformity in dual operating wavelength windows. Where some amplification of the incoming signal level is desired prior to its being split, FA4500 series EDFA modules are also available for these nodes.

OP41SxS

Product Specifications

Physical:

- Dimensions: 4.0" D x 4.5" H x 2.0" W (10.2 cm x 11.4 cm x 5.1 cm)
- Weight:
 - OP41S8S: 1.0 lbs (.045 kg)
 - OP41S16S: 1.3 lbs (0.59 kg)
 - OP41S32S: 1.5 lbs (0.68 kg)

Environmental:

- Operating temperature range: -40° to +85°C (-40° to 185°F)
- Storage temperature range: -40° to +85°C (-40° to 185°F)
- Humidity: 5% to 95% non-condensing

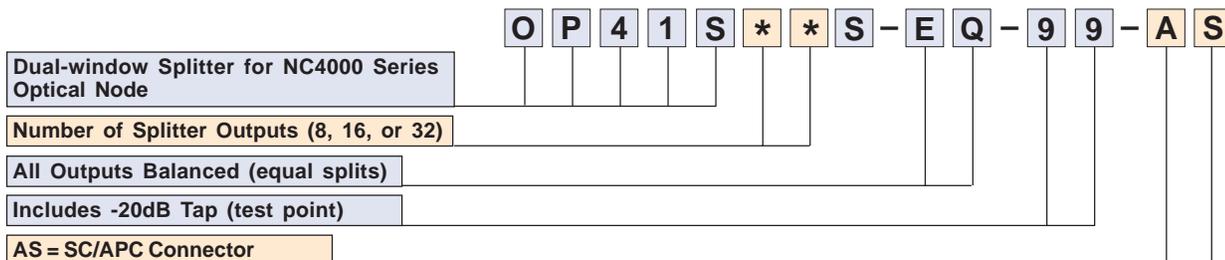
Optical Interface

- SC/APC connectors for input (INP) and -20dB Test Point
- 8-port MPO (Elite female) connector(s) for outputs
- Number of 8-port MPO connector(s):
 - OP41S8S: 1
 - OP41S16S: 2
 - OP41S32S: 4
- Number of splitters and splitter type:
 - OP41S8S: 1 1x8 (single 1x8 PLC splitter used)
 - OP41S16S: 1 1x16 (two 1x8 PLC splitters used)
 - OP41S32S: 1 1x32 (four 1x8 PLC splitters used)

Optical:

- Passband wavelength: 1310nm ± 30nm, and 1520nm ± 100nm
- Spectral flatness, max:
 - OP41S8S:
 - 0.45 dB (typ <0.30 dB) over 1280 –1620nm
 - 0.15 dB (typ <0.10 dB) over 1530 –1565nm
 - OP41S16S and OP41S32S:
 - 0.60 dB (typ <0.30 dB) over 1280 –1620nm
 - 0.25 dB (typ <0.15 dB) over 1530 –1565nm
- Insertion loss, max (including connectors):
 - OP41S8S: 11.1 dB (typ <10.6 dB)
 - OP41S16S: 14.3 dB (typ <13.8 dB)
 - OP41S32S: 17.5 dB (typ <17.0 dB)
- Uniformity, max (including connectors):
 - OP41S8S: 0.8 dB (typ <0.4 dB)
 - OP41S16S: 1.0 dB (typ <0.7 dB)
 - OP41S32S: 1.2 dB (typ <0.8 dB)
- Polarization Dependent Loss (PDL), max:
 - OP41S8S: 0.15 dB
 - OP41S16S: 0.3 dB (typ <0.2 dB)
 - OP41S32S: 0.3 dB (typ <0.2 dB)
- Return loss, min: 55 dB
- Directivity, min: 55 dB
- Input port (INP) power handling, max:
 - OP41S8S: 24 dBm
 - OP41S16S: 27 dBm
 - OP41S32S: 30 dBm

Ordering Information



Note: Modules require a JC1500 series fiber optic service cable for connection to an external splice closure.



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