

# Optical Node Series (NC)

OP41SxS
Optical Splitters with Balanced Outputs

## **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 (1310 nm and 1550 nm)
- High port-to-port uniformity



# **PRODUCT OVERVIEW**

ARRIS' 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.

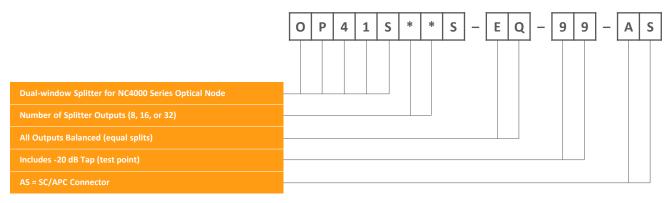
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Characteristics	Specification
Physical	Specification
Dimensions	4.0" D x 4.5" H x 2.0" W (10.2 cm x 11.4 cm x 5.1 cm)
	OP41S8S: 1.0 lbs (.045 kg)
Weight	• OP41516S: 1.3 lbs (0.59 kg)
	• OP41S32S: 1.5 lbs (0.68 kg)
Environmental	
Operating Temperature 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 -20 dB 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)
	<ul> <li>OP41S16S: 1 1x16 (two 1x8 PLC splitters used)</li> </ul>
	<ul> <li>OP41S32S: 1 1x32 (four 1x8 PLC splitters used)</li> </ul>
Optical	
Passband wavelength	1310 nm ± 30 nm, and 1520 nm ± 100 nm
Spectral flatness, max	• OP41S8S:
	0.45 dB (typ < 0.30 dB) over 1280 –1620 nm
	0.15 dB (typ < 0.10 dB) over 1530 –1565 nm
	<ul> <li>OP41S16S and OP41S32S:</li> <li>0.60 dB (typ &lt; 0.30 dB) over 1280 –1620 nm</li> </ul>
	0.25 dB (typ < 0.15 dB) over 1530 –1565 nm
Insertion loss, max (including connectors)	OP41S8S: 11.1 dB (typ < 10.6 dB)
insertion loss, max (including connectors)	• OP415165: 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)
	<ul> <li>OP41S16S: 1.0 dB (typ &lt; 0.7 dB)</li> </ul>
	• OP41S32S: 1.2 dB (typ < 0.8 dB)
Polarization Dependent Loss (PDL), max	OP41S8S: 0.15 dB
	<ul> <li>OP41S16S: 0.3 dB (typ &lt; 0.2 dB)</li> </ul>
	• 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.

RELATED PRODUCTS	
VHub	Optical Patch Cords
NC4000	Optical Passives
FA4500 EDFA modules	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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