

Features

- Low insertion loss
- Dual operating wavelength windows (1310 and 1550 nm)
- Operating temperature range -40° to $+85^{\circ}\text{C}$
- Telcordia GR-1209 and GR-1221 qualified, providing excellent environmental and mechanical stability
- Variety of options for module package size, fiber jacket and connector types
- Epoxy-free on optical path

1x3, 1x4, and 1x8 Optical Splitters / Combiners



Pictured above: OP91S4S-EQ-R2-AS 1x4 Splitter with SC/APC Connectors

Aurora Networks' OP91SxS series splitters and combiners have been designed with high uniformity and low insertion and polarization dependent loss. The product family of modules includes 1x3, 1x4, and 1x8 splitters/combiners with balanced (50/50) outputs, all offered with optional SC/APC type connectors.

The splitters/combiners are available in two versions of packaging for outdoor use, one version ruggedized for easy handling and the second version, though not ruggedized, being smaller and easier to fit in a splice enclosure. Both versions are designed for use in an outdoor environment within a temperature range of -40° to $+85^{\circ}\text{C}$.

OP91SxS

Product Specifications

Physical:

- Dimensions: (See Ordering Information.)
- Weight, max: 0.2 lbs (0.9 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:

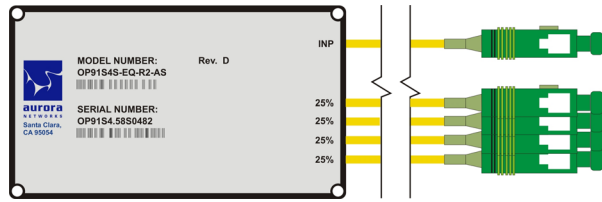
- Optical connectors: (See Ordering Information.)
- Splitter types (equal outputs): 1x3 (33.3%), 1x4 (25%), and 1x8 (12.5%)

Package Options:

Three examples are shown below. Output split ratio percentages are printed on the labels of ruggedized packages. For non-ruggedized tubes, the input and output fiber optic leads are color-coded as shown in the example.

- Operating wavelength (dual windows): 1263.5 – 1357.5 nm and 1423.5 – 1617.5 nm
- Directivity, min: 55 dB
- Return loss, min: 55 dB
- Input power handling, max: 27 dBm
- Polarization dependent loss, max: 0.15 dB

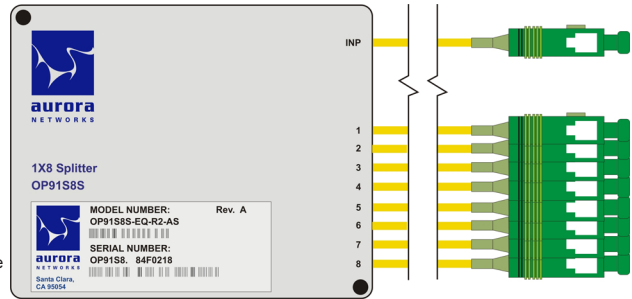
Part Number	Splitter Type	Insertion Loss, max, with conns (dB)	Uniformity, max (dB)	Spectral Flatness (dB) over wavelength ranges, max (typical)		
				1280-1340	1420-1620	1530-1565
OP91S3S-EQ-xy-zz	1x3	5.6	0.4	0.35 (0.25)	0.45 (0.35)	0.25 (0.15)
OP91S4S-EQ-xy-zz	1x4	6.9	0.5	0.35 (0.25)	0.45 (0.35)	0.25 (0.15)
OP91S8S-EQ-xy-zz	1x8	10.6	0.7	0.55 (0.35)	0.65 (0.45)	0.45 (0.25)



OP91S4S-EQ-R2-AS 1x4-Splitter in "S" Case (shown half scale)



OP91S3S-EQ-N0-00 1x3 Splitter in Non-ruggedized Tube (shown full scale)



OP91S8S-EQ-R2-AS 1x8-Splitter in "F" Case (shown half scale)

Ordering Information

The following models are currently available:

- OP91S3S-EQ-N0-00 1x3 Splitter with 0.25 mm bare fiber pigtailed in 3x60 mm non-ruggedized tube, not connectorized
- OP91S3S-EQ-R2-00 1x3 Splitter with 2 mm jacketed fibers in 8.5x14x98 mm ruggedized "C" case, not connectorized
- OP91S3S-EQ-R2-AS 1x3 Splitter with 2 mm jacketed fibers in 9.2x51x89 mm ruggedized "S" case with SC/APC conns
- OP91S4S-EQ-R2-00 1x4 Splitter with 2 mm jacketed fibers in 9.2x51x89 mm ruggedized "S" case, not connectorized
- OP91S4S-EQ-R2-AS 1x4 Splitter with 2 mm jacketed fibers in 9.2x51x89 mm ruggedized "S" case with SC/APC conns
- OP91S8S-EQ-R2-00 1x8 Splitter with 2 mm jacketed fibers in 7x78x96 mm ruggedized "F" case, not connectorized
- OP91S8S-EQ-R2-AS 1x8 Splitter with 2 mm jacketed fibers in 7x78x96 mm ruggedized "F" case with SC/APC conns

Note: Fiber lengths for all models is minimum 1 meter.



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