

Optical Passives (ISP)

OP3xSx

Optical Splitters/Combiners

FEATURES

- Low insertion loss
- Wide operating wavelength windows
- High port-to-port uniformity
- SC/APC connectors ensure performance repeatability, compatibility, and easy installation and maintenance
- Removable adapters for easy cleaning
- Industry's highest packaging density (up to 32 modules per chassis)
- Occupies one half-depth slot for most modules (two half-depth slots for 1x16 module)



PRODUCT OVERVIEW

ARRIS OP3xSx family of splitters and combiners have been designed with high uniformity, low insertion loss, and polarization dependent loss. The product family of modules includes 1x4, 2x4, 1x8, and 1x16 splitters/combiners; dual 1x2, 1x3, and 2x2 splitters/combiners; and a family of dual 1x2 splitters/combiners having unbalanced outputs with split ratios ranging from 55/45 to 99/1. A unique scalable 8x8 splitter/combiner is also available from ARRIS and described in a separate data sheet. All modules utilize SC/APC type connectors that can be removed for easy cleaning.

ARRIS' single mode, multiband splitters and combiners are packaged in ARRIS's very compact half-depth module for mounting in the CH3000 chassis. The packaging concept for ARRIS's family of optical passives is similar to the well-recognized LGX package; and, although ARRIS's version of the LGX module is slightly narrower (for higher packaging density), it will also mount in any standard LGX chassis. ARRIS's implementation maintains the advantages of the LGX concept (which enables easy, snap-in installation) while providing higher packaging density, greater flexibility and scalability to the network operator.

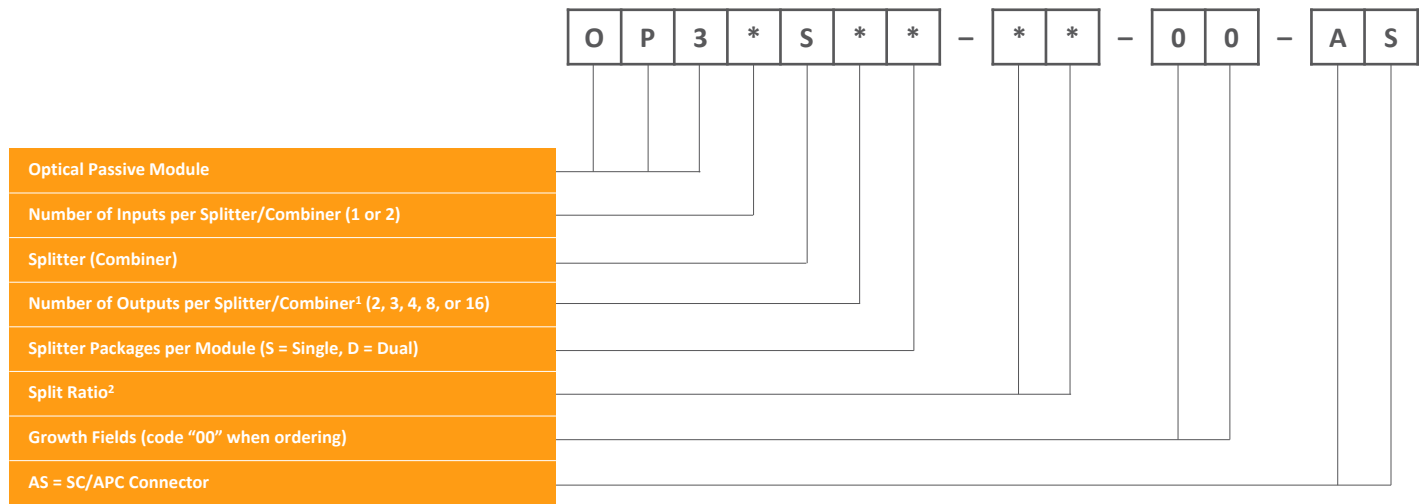
SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	6.5" D x 4.3" H x 1.0" W (3RU) (17 cm x 11 cm x 2.5 cm)
Weight	0.8 lbs (0.34 kg)
Environmental	
Operating temperature range (indoor)	-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
Optical Interface	
Optical connectors	SC/APC
Optical	
Operating wavelength	1263.5-1357.5 nm and 1423.5-1655 nm for 1x2, 1x3, 1x4, 2x2, and 2x4 1263.5-1655.0 nm for 1x8 and 1x16
Directivity	55 dB
Return loss, min	55 dB
Input power handling, min	> 30 dBm

TABLE 1: INSERTION LOSS

Part Number	Package Design	Split Ratio [%]	Insertion Loss [dB], typical (max)	Uniformity [dB], typical (max)
OP31S2D-EQ-00-AS	Dual 1x2	50/50	3.5 (3.9)	0.5 (0.7)
OP31S3D-EQ-00-AS	Dual 1x3	33/33/33	5.1 (5.5)	0.5 (0.8)
OP32S2D-EQ-00-AS	Dual 2x2	50/50	3.5 (3.9)	0.5 (0.7)
OP31S4S-EQ-00-AS	1x4	4 x 25%	6.7 (7.2)	0.5 (0.8)
OP32S4S-EQ-00-AS	2x4	4 x 25%	6.7 (7.2)	0.5 (0.8)
OP31S8S-EQ-00-AS	1x8	8 x 12%	10.2 (10.7)	0.7 (1.0)
OP31S16S-EQ-00-AS	1x16	16 x 6%	13.4 (13.9)	0.8 (1.1)
OP31S2D-55-00-AS	Dual 1x2	55/45	3.2 (3.3)/3.8 (4.2)	N/A
OP31S2D-60-00-AS	Dual 1x2	60/40	2.7 (3.1)/4.3 (4.9)	N/A
OP31S2D-65-00-AS	Dual 1x2	65/35	2.4 (2.8)/4.9 (5.5)	N/A
OP31S2D-70-00-AS	Dual 1x2	70/30	2.0 (2.4)/5.6 (6.1)	N/A
OP31S2D-75-00-AS	Dual 1x2	75/25	1.7 (2.1)/6.4 (6.9)	N/A
OP31S2D-80-00-AS	Dual 1x2	80/20	1.5 (1.9)/7.3 (7.9)	N/A
OP31S2D-85-00-AS	Dual 1x2	85/15	1.2 (1.4)/8.4 (9.1)	N/A
OP31S2D-90-00-AS	Dual 1x2	90/10	1.0 (1.2)/10.3 (10.9)	N/A
OP31S2D-95-00-AS	Dual 1x2	95/5	0.6 (0.9)/13.2 (14.0)	N/A
OP31S2D-99-00-AS	Dual 1x2	99/1	0.2 (0.6)/19.7 (20.0)	N/A

ORDERING INFORMATION



NOTES:

1. Not all combinations of numbers of inputs and outputs are valid. Reference above table for available combinations.
2. Specify split ratio for higher percentage value of two unbalanced outputs (55, 60, . . . , 95 or 99). Encode "EQ" for models with balanced outputs. Split ratios are identical for modules with dual splitter packages.

RELATED PRODUCTS

CH3000 chassis	Optical Patch Cords
LGX chassis	Optical Passives

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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