

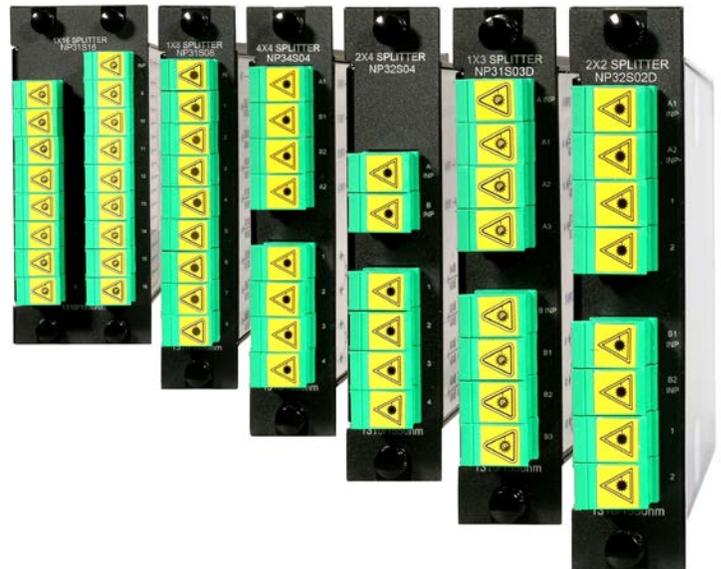
Optical Passives (ISP)

NP3nSxx

Optical Splitters/Combiners

FEATURES

- Low insertion loss
- Wide wavelength operating bands suitable for CWDM applications
- High port-to-port uniformity
- 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)
- LGX chassis-compatible for ISP inside plant controlled indoor environments
- Replaces OP3xSx



PRODUCT OVERVIEW

ARRIS's NP3nSxx 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 connectors that can be removed for easy cleaning.

ARRIS's single mode, multiband splitters and combiners are packaged in ARRIS's very compact half-depth LGX module for mounting in the CH3000 chassis.

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 (0.36 kg)
Environmental	
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
Optical	
Optical connectors	SC/APC or LC/APC (See Ordering Information)
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

ORDERING INFORMATION

Part Number	Optical Connectors	Package Design	Split Ratio [%]	Insertion Loss [dB], typical (max)	Uniformity [dB], typical (max)
NP31S02DEQZ00-0LA-AS	SC/APC	Dual 1x2	50/50	3.5 (3.9)	0.5 (0.7)
NP31S03DEQZ00-0LA-AS	SC/APC	Dual 1x3	33/33/33	5.1 (5.5)	0.5 (0.8)
NP32S02DEQZ00-0LA-AS	SC/APC	Dual 2x2	50/50	3.5 (3.9)	0.5 (0.7)
NP31S04SEQZ00-0LA-AS	SC/APC	1x4	4 x 25%	6.7 (7.2)	0.5 (0.8)
NP32S04SEQZ00-0LA-AS	SC/APC	2x4	4 x 25%	6.7 (7.2)	0.5 (0.8)
NP31S08SEQZ00-0LA-AS	SC/APC	1x8	8 x 12%	10.2 (10.7)	0.7 (1.0)
NP31S16SEQZ00-0LA-AS	SC/APC	1x16	16 x 6%	13.4 (13.9)	0.8 (1.1)
NP31S16SEQZ00-0LA-AL	LC/APC	1x16	16 x 6%	13.4 (13.9)	0.8 (1.1)
NP31S02D55Z00-0LA-AS	SC/APC	Dual 1x2	55/45	3.2 (3.3)/3.8 (4.2)	N/A
NP31S02D60Z00-0LA-AS	SC/APC	Dual 1x2	60/40	2.7 (3.1)/4.3 (4.9)	N/A
NP31S02D65Z00-0LA-AS	SC/APC	Dual 1x2	65/35	2.4 (2.8)/4.9 (5.5)	N/A
NP31S02D70Z00-0LA-AS	SC/APC	Dual 1x2	70/30	2.0 (2.4)/5.6 (6.1)	N/A
NP31S02D75Z00-0LA-AS	SC/APC	Dual 1x2	75/25	1.7 (2.1)/6.4 (6.9)	N/A
NP31S02D80Z00-0LA-AS	SC/APC	Dual 1x2	80/20	1.5 (1.9)/7.3 (7.9)	N/A
NP31S02D85Z00-0LA-AS	SC/APC	Dual 1x2	85/15	1.2 (1.4)/8.4 (9.1)	N/A
NP31S02D90Z00-0LA-AS	SC/APC	Dual 1x2	90/10	1.0 (1.2)/10.3 (10.9)	N/A
NP31S02D95Z00-0LA-AS	SC/APC	Dual 1x2	95/5	0.6 (0.9)/13.2 (14.0)	N/A
NP31S02D99Z00-0LA-AS	SC/APC	Dual 1x2	99/1	0.2 (0.6)/19.7 (20.0)	N/A

RELATED PRODUCTS

CH3000 Chassis	Optical Patch Cords
LGX Chassis	Optical Passives
Optical Transmitters	Installation Services

Note: Specifications are subject to change without notice.

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