

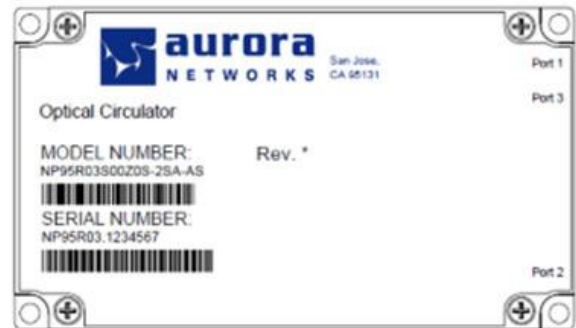
Optical Passives (OSP)

NP95R03

Optical Circulator, 3-Port Polarization Insensitive for OSP Applications

FEATURES

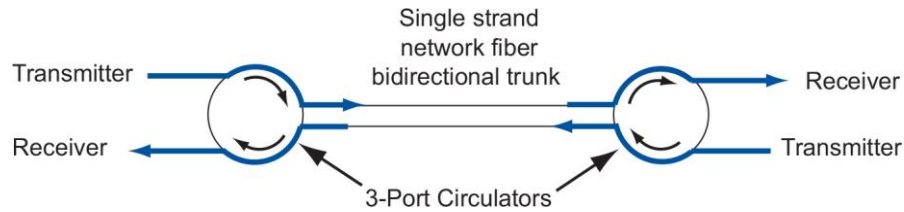
- Separates optical signals that travel in opposite directions over a single fiber
- Routes incoming signals from Port 1 to Port 2, and incoming Port 2 signals to Port 3
- Optimized for C-Band (1550 nm window) DWDM applications
- Low insertion loss
- High Isolation
- Applications:
 - Bidirectional signal transmission systems
 - Add/drop multiplexing (OADM)
 - Dispersion compensation
 - EDFA optical fiber amplification
- Temperature hardened (−40°C to +85°C) compact field enclosures for OSP outside plant deployment
- SC/APC or NO connector options
- Telcordia GR-1209 and GR-1221 qualified



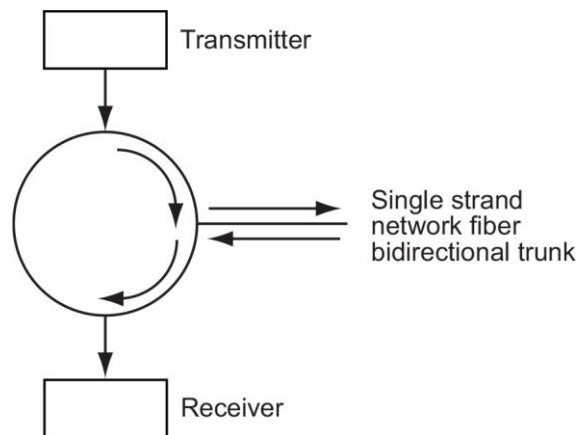
PRODUCT OVERVIEW

ARRIS's NP95R03 3-port polarization insensitive optical circulator cassettes are specialized lightwave passive devices that can be used to separate optical signals that travel in opposite directions on a singlemode optical fiber. These cassettes feature low insertion loss and high isolation between the input and reflected optical power. Hence, they can be deployed as low loss signal routers, transmitting light from an input port to an output port, but directing light that returns along that output fiber to a third port, facilitating bidirectional transmission of multiple interleaved DWDM ITU wavelengths over a single fiber.

These compact, ruggedized, anodized aluminum cassettes have been designed for use in an OSP outside plant environment. Pigtail fibers are individually labeled to ensure proper installation and deployment.



SPECIFICATIONS	
Characteristics	Specification
Physical	
Dimensions	0.35" H x 2.0" W x 3.5" L (0.9 cm x 5.1 cm x 8.9 cm)
Weight	0.8 lbs (0.36 kg)
Cassette case type	S-case package
Environmental	
Operating Temperature Range (indoor)	-40°C to +85°C (-40°F to +185°F)
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)
Humidity	5% to 95% non-condensing
Optical Interface	
Input/output configuration	Port 1 to Port 2 Port 2 to Port 3
Optical connector options	AS: SC/APC (with 0.75 m 1.6 mm fiber pigtails) 00: NO connectors (with 1.5 m 1.6 mm fiber pigtails)
Optical	
Insertion loss, max (including connectors)	Port 1 to Port 2: 1.1 dB Port 2 to Port 3: 1.1 dB
Directivity (Port 1 - Port 3), min	50 dB
Passband	1463.5 - 1617.5 nm
Isolation, min	1470 - 1610 nm: 32 dB 1520 - 1580 nm: 40 dB
Return loss, min	50 dB
Polarization dependent loss, max	0.15 dB
Power handling, max (any port)	21.8 dBm



ORDERING INFORMATION

Part Number

NP95R03S00Z0S-2SA-yz

yz = Optical connector type: NO connectors (00) or SC/APC (AS)

RELATED PRODUCTS

Optical Transmitters	Optical Passives
Digital Return	Optical Patch Cords
Optical Nodes	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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