

Passive SM Dual Stage Compact Isolator, Grade P, 1550nm, 1 meter 250um bare fiber



PSMDIC-P55-12N

Features

- Single Mode fiber
- polarization independent
- Dual Stage, grade P
- 1 meter, no connectors
- 20mm Compact design
- Low insertion loss
- High isolation
- Low PDL
- High stability and reliability

Applications

- Optical Amplifier
- Communication Networks
- Fiber Sensors
- Coherent Detection
- Research and Development
- Power Monitoring

Description

Elevate the performance of your optical systems with the L-com PSMDIC-P55-12N, a passive polarization independent isolator with single-mode fiber engineered for precision and excellence. Categorized as a grade P (Premium) Dual Stage isolator, it is the ideal choice for protecting light sources from back reflections and signal noise, ensuring consistent and dependable results in your optical systems. With its compact 20mm size and a wavelength of 1550nm, this isolator delivers the critical specifications required for demanding optical tasks.

L-com's PSMDIC-P55-12N isolator arrives without connectors at both ends, offering flexibility in your optical configuration. Additionally, its 250um bare fiber facilitates seamless integration into various setups.

The L-com PSMDIC-P55-12N boasts essential features, including low insertion loss, high isolation, low PDL (Polarization-Dependent Loss), and outstanding stability and reliability. Collectively, these features ensure that your optical systems consistently operate at their peak, with minimal signal loss, precise signal separation, and reliable performance over time.

Whether your focus is on optical amplification, communication networks, fiber sensing, coherent detection, research and development, or power monitoring, L-com's PSMDIC-P55-12N stands as your trusted partner. Its versatility and quality position it as the top choice for professionals seeking precision and excellence in single-mode polarization independent optical isolators.

Experience the full potential of your optical projects and systems with the L-com PSMDIC-P55-12N. It empowers you to achieve superior results, setting the highest standards for performance, stability, and reliability in your single-mode optical endeavors. Rely on its capabilities to enhance and optimize your optical setups for outstanding outcomes. Other configurations are available upon request, if you do not see the configuration, you are looking for, please contact our expert technical support.

Configuration

Mode	Single Mode
Module Function	Isolator
Fiber Type	250um bare fiber
Fiber Diameter	250um
Package	2.5x20mm
Stage	Dual Stage
Grade	Grade P

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Passive SM Dual Stage Compact Isolator, Grade P, 1550nm, 1 meter 250um bare fiber PSMDIC-P55-12N](#)

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Filter Specifications

Description	Minimum	Typical	Maximum	Units
Operating Wavelength	1530	1550	1570	nm
Insertion Loss			0.6	dB
Return Loss	55			dB
PDL			0.1	dB
Isolation	45	50		dB
Optical Power			300	mW

Size

Length	39.37 in [100 cm]
Weight	0.25 lbs [113.4 g]

Environmental Specifications

Temperature

Operating Range	-5 to +70 deg C
Storage Range	-40 to +85 deg C

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Passive SM Dual Stage Compact Isolator, Grade P, 1550nm, 1 meter 250um bare fiber from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

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PSMDIC-P55-12N CAD Drawing

