

Passive SM Single Stage Compact Isolator, Grade P, 1550nm,  
1 meter 250um bare fiber, FC/APC, narrow key



## PSMSIC-P55-121

### Features

- Single Mode fiber
- polarization independent
- Single Stage, grade P
- 1 meter, FC/APC, narrow key 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 PSMSIC-P55-121, a passive polarization independent isolator with single-mode fiber engineered for precision and excellence. Categorized as a grade P (Premium) Single 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 PSMSIC-P55-121 isolator arrives with FC/APC, narrow key connectors at both ends, offering flexibility in your optical configuration. Additionally, its 250um bare fiber facilitates seamless integration into various setups.

The L-com PSMSIC-P55-121 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 PSMSIC-P55-121 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 PSMSIC-P55-121. 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

Polish	APC
Mode	Single Mode
Module Function	Isolator
Fiber Type	250um bare fiber
Fiber Diameter	250um
Package	2.5x20mm
Stage	Single Stage

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Passive SM Single Stage Compact Isolator, Grade P, 1550nm, 1 meter 250um bare fiber, FC/APC, narrow key PSMSIC-P55-121](#)

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## PSMSIC-P55-121

Grade

Grade P

### Filter Specifications

Description	Minimum	Typical	Maximum	Units
Operating Wavelength	1530	1550	1570	nm
Insertion Loss			0.75	dB
Return Loss	50			dB
PDL			0.1	dB
Isolation	28	35		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 Single Stage Compact Isolator, Grade P, 1550nm, 1 meter 250um bare fiber, FC/APC, narrow key 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.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

PSMSIC-P55-121 CAD Drawing

