



Free Space Isolator for CWDM

Free space isolators are used in the high-speed optical transmitter or other pump laser which need to isolate the backward light. The isolators offer excellent performance with high isolation and low insertion loss.

The products are Telcordia GR-1221-CORE qualified.

Features

- ◆ High Isolation
- ◆ Polarization Dependent
- ◆ Optical Path Epoxy Free
- ◆ Compact size
- ◆ Versatile Package
- ◆ Multiple-wavelength

Applications

- ◆ CWDM
- ◆ Laser Diode Packaging



Performance Specifications

Parameter	Single Stage		Dual Stage	
	P Grade	A Grade	Grade	P Grade
Grade	P Grade	A Grade	Grade	P Grade
Operating Wavelength (nm)	1470,1490,1510,1530,1550,1570,1590,1610			
Minimum Isolation at center wavelength (dB)	≥42	≥40	≥55	≥50
Isolation ($\lambda_c \pm 6.5\text{nm}$)(dB)	≥38	≥35	≥42	≥40
Insertion Loss (dB) ($\lambda_c \pm 6.5\text{nm}$)	≤0.25	≤0.30	≤0.35	≤0.40
Clear Aperture (mm)	≥0.90 or ≥0.75			
Operating Temperature (° C)	-5 ~ + 70			
Storage Temperature (° C)	-40 ~ +85			
Power Handling (mW)	300			

**Specifications may change without notice

Order information

FSIC-①①-②-③③-④-⑤⑤

①①	②	③③	④	⑤⑤
Type	Grade	wavelength	Package	Size
S:Single stage D: Dual stage	P:P Grade A:A Grade	47:1470nm 49:1490nm 51:1510nm 53:1530nm 55:1550nm 57:1570nm 59:1590nm 61:1610nm XX:Others	1:Epoxy used 2:Epoxy Free	1:Ø2.99*3.0mm 2:Ø2.99*2.8mm 3:Ø2.5*1.4mm 4:Ø2.5*2.0mm 5:Ø2.5*2.4mm 6:Ø2.5x2.8mm 7:Specify