



High Power Polarization-Insensitive Optical Isolator

FEATURES

High Isolation
 Low Insertion Loss
 High Return Loss
 Low Polarization Sensitivity
 Epoxy Free Optical Path

APPLICATION

Fiberoptic Amplifiers
 CATV Fiberoptic Links
 Fiberoptic Systems Testing
 Fiberoptic LAN Systems
 Telecommunications

PERFORMANCE SPECIFICATIONS

| Parameter | Specifications | | | |
|------------------------------|--|-------------------------|---------------------------------------|-------------------------|
| | Single | | Dual | |
| Grade | P | A | P | A |
| Operating Wavelength | 1310nm,1550nm,1585nm or custom | | | |
| Stage | Single | | Dual | |
| Typical Peak Isolation | ≥42dB | ≥42dB | ≥58dB | ≥55dB |
| Minimum Isolation | ≥ 32 ¹⁾ dB | ≥ 32 ¹⁾ dB | ≥ 44 ¹⁾ dB | ≥ 43 ¹⁾ dB |
| Typical Insertion Loss | 0.40 ²⁾ dB | 0.50 ²⁾ dB | 0.55 ²⁾ dB | 0.65 ²⁾ dB |
| Insertion Loss | ≤ 0.60 ³⁾ dB | ≤ 0.70 ³⁾ dB | ≤ 0.70 ³⁾ dB | ≤ 0.80 ³⁾ dB |
| Return Loss (In/Out) | ≥ 60/55dB | ≥ 60/55dB | ≥ 60/55dB | ≥ 60/55dB |
| Polarization Dependent Loss | ≤ 0.05dB | | ≤ 0.10dB | |
| Polarization Mode Dispersion | ≤ 0.2ps (0.05 available upon request) | | ≤ 0.2ps (0.05 available upon request) | |
| Bandwidth | ± 15nm | | ± 30nm | |
| Optical Power | 1, 2, 3, 5W and custom | | | |
| Peak Power for ns Pulse | - | | | |
| Operating Temperature | -20 to +70°C | | | |
| Storage Temperature | - 40 to +85°C | | | |
| Package Dimensions | A= Standard, Φ5.5xL34mm (250um bare fiber), Φ5.5xL42mm (900um fiber) | | | |

Note: 1) Overall bandwidth at 23°C

2) Not including connector, splice and fiber-end Fresnel losses.

3) Including PDL, operating wavelength range, -20° C to +70° C.

All values referenced are without connector.

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MECHANICAL DIMENSIONS



PORT CONFIGURATIONS



ORDERING INFORMATION

| Type | Operating Wavelength | Grade | Package | Fiber Type* | Pigtail Style | Fiber Length | In Connector | Out Connector |
|-----------------------|----------------------|-----------|--------------|----------------------------|--------------------|--------------|--------------|---------------|
| H11S=Single stage, 1W | 31=1310nm | P=P grade | A= A package | 2=SMF-28 Ultra (G.657.A1) | 1=Bare fiber | 05=0.5m | 0= None | 0= None |
| · | 48=1480nm | A=A grade | | | 2=900um loose tube | 10=1.0m | 1= FC/APC | 1= FC/APC |
| · | 55=1550nm | | | 3=ClearCurve ZBL(G.657.B3) | | · | 2= FC/PC | 2= FC/PC |
| H51S=Single stage, 5W | LB=L band | | | | | · | 3= SC/APC | 3= SC/APC |
| H11U=Dual stage, 1W | SS=Custom | | | | | 20=2.0m | 4= SC/PC | 4= SC/PC |
| · | | | | | | | 5= ST | 5= ST |
| · | | | | | | | 6= LC/UPC | 6= LC/UPC |
| H51U=Dual stage, 5W | | | | | | | 7= LC/APC | 7= LC/APC |

*1=SMF-28(G.652) is available upon request.