

1x4 Polarization Beam Combiner



FEATURES

Low Insertion Loss
High Extinction Ratio
Compact In-Line Package
High Stability and Reliability
Epoxy Free Optical Path

APPLICATION

High Power EDFA
Raman Amplifier
Laboratory

PERFORMANCE SPECIFICATIONS

| Parameter | Specifications | |
|--------------------------------------|---------------------|---------|
| Operating Wavelength | 1310, 1480 and 1550 | |
| Bandwidth | ±40nm | |
| Grade | P | A |
| Typical Insertion Loss | 1.2dB | 1.5dB |
| Insertion Loss | ≤ 1.5dB | ≤ 1.8dB |
| Extinction Ratio (For splitter only) | ≥ 18dB | ≥ 16dB |
| Return Loss (In/Out) | ≥ 50dB | |
| Direction of Incident Polarization | Slow Axis | |
| Optical Power | ≤ 500 mW | |
| Tensile Load | ≤ 5N | |
| Operating Temperature | - 5 to +70°C | |
| Storage Temperature | - 40 to +85°C | |
| Fiber Type | PM Panda Fiber | |
| Package Dimensions | D=120x80x11.6 | |

Note:

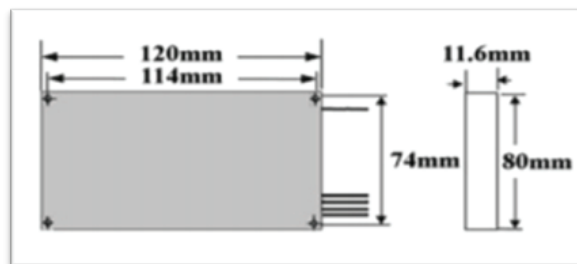
1. The PM fiber and the connector key are aligned to the slow axis.
2. The ER is for fiber ≤ 0.75 meter. Increasing fiber length can decrease the ER.
3. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower.

All values referenced are without connector.

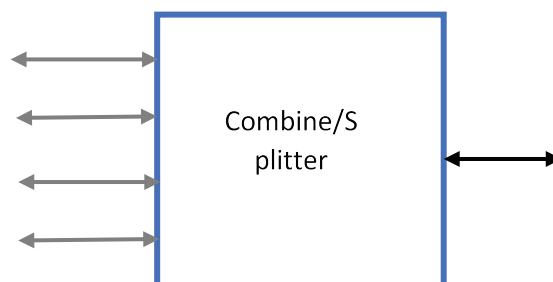
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MECHANICAL DIMENSIONS

D package



PORT CONFIGURATIONS



ORDERING INFORMATION

| Type | Grade | Operating Wavelength | Port | Package | Fiber Type | Pigtail Style | Fiber Length | In Connector | Out Connector |
|--------------|-----------|----------------------|--------------|-------------|------------|---------------|--------------|--------------|---------------|
| PBC=Combiner | P=P grade | 31=1310nm | 401=Combiner | D=D package | M=PM1310 | 1=Bare fiber | 07=0.75m | 0=None | 0=None |
| PBS=Splitter | A=A grade | 48=1480nm | 104=Splitter | | N=PM1550 | 2=900um | 10=1.0m | 1=FC/APC | 1=FC/APC |
| | | 55=1550nm | | | S=Custom | loose tube | • | 2=FC/PC | 2=FC/PC |
| | | | | | | | • | 3=SC/APC | 3=SC/APC |
| | | | | | | | • | 4=SC/PC | 4=SC/PC |
| | | | | | | | | 5=ST | 5=ST |
| | | | | | | | | 6=LC/UPC | 6=LC/UPC |
| | | | | | | | | 7=LC/APC | 7=LC/APC |