

Gain Flattening Filter

C-Band, L-Band



DATASHEET

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Features

- Wide Operating Wavelength Range
- Low Insertion Loss
- Flat Spectral Gain
- High Stability and Reliability
- Epoxy Free Optical Path

Specifications

Parameter	Min	Typical	Max	Unit
Operation Wavelength		C-Band: 1528 -1565nm or custom; L-Band: 1570 – 1610nm or custom		nm
Insertion Loss		≤ 0.60		dB
Modulation Depth	C-Band	1	3	dB
	L-Band	3.1	6	
Peak to Peak Error Function	C-Band	≤ 0.50		dB
	L-Band	≤ 0.80		
Polarization Dependent Loss (PDL)		≤ 0.10		dB
Return Loss		≥ 50		dB
Optical Power		≤ 500		mW
Operating Temperature	0		+70	°C
Storage Temperature	-40		+85	°C

* All values referenced are without connector.

Applications

- Fiberoptic Amplifiers



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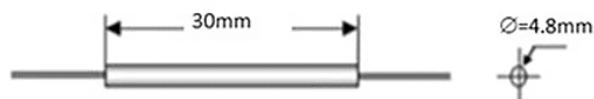
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Mechanical Dimensions (mm)

A Package



M Package



N Package

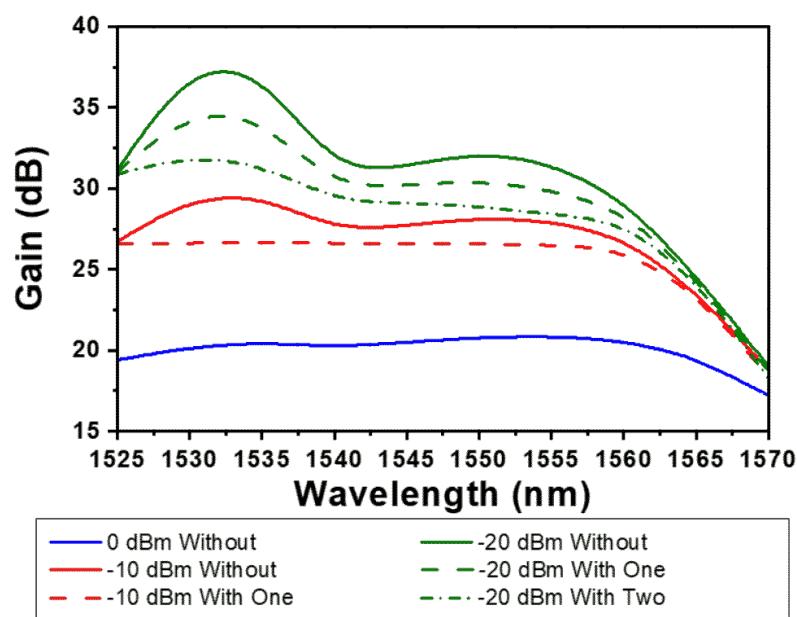


*Product dimensions may change without notice. This is sometimes required for non-standard specifications.

Port Configurations



Typical Spectrum - Gain vs Wavelength



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Ordering Information

Prefix	Center Wavelength	Fiber Type	Fiber Cover	Fiber Length	Connector
GAFF-	C-band = C L-band = L Special = 0	SM28 = 1 Special = 0	Bare = 1 0.9mm tube = 2 Special = 0	0.25m = 1 0.5m = 2 Special = 0	None = 1 FC/PC = 2 FC/APC = 3 SC/PC = 4 SC/APC = 5 ST/PC = 6 LC/PC = 7 Special = 0

Application Notes

Fiber Core Alignment

Note that the minimum attenuation for these devices depends on excellent core-to-core alignment when the connectors are mated. This is crucial for shorter wavelengths with smaller fiber core diameters that can increase the loss of many decibels above the specification if they are not perfectly aligned. Different vendors' connectors may not mate well with each other, especially for angled APC.

Fiber Cleanliness

Fibers with smaller core diameters (<5 μm) must be kept extremely clean, contamination at fiber-fiber interfaces, combined with the high optical power density, can lead to significant optical damage. This type of damage usually requires re-polishing or replacement of the connector.

Maximum Optical Input Power

Due to their small fiber core diameters for short wavelength and high photon energies, the damage thresholds for device is substantially reduced than the common 1550nm fiber. To avoid damage to the exposed fiber end faces and internal components, the optical input power should never exceed 20 mW for wavelengths shorter 650nm. We produce a special version to increase the how handling by expanding the core side at the fiber ends.

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