

## Isolator Gain Flattening Filter

Auxora's Isolator Gain Flattening Filter (IGFF) is a filter-based device which features ultra low insertion loss, super thermal stability and excellent reliability. The device is a combination of one polarization insensitive isolator and one GFF device based on lead-free packaging platform without epoxy on the optical path. The GFFs provide in-line compensation of the spectral gain profile of EDFAs, and can be used for high-power applications in DWDM system.



### FEATURES

- Low insertion loss
- Flat spectral gain
- Exceptional reliability and stability
- Epoxy free optical path
- Telcordia GR-1221 and GR1209 compliant

### APPLICATIONS

- Fiber optic amplifier

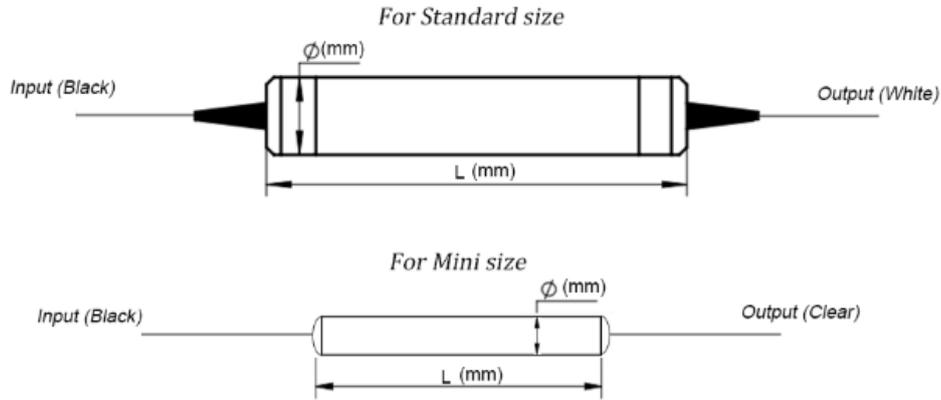
### SPECIFICATIONS

Parameters	Unit	Value	
Stage	-	Single Stage	Dual Stage
Operating Wavelength Range	nm	Refer to target curve	
Peak Insertion Loss	dB	≤ 0.8	≤ 0.9
Isolation	dB	≥ 20	≥ 38
Peak to Peak in Error Function Range	dB	≤ 0.6	
Optical Return Loss (Input & Output)	dB	≥ 50	
Polarization Dependent Loss	dB	≤ 0.1	
Polarization Mode Dispersion	ps	≤ 0.05	
Temperature Dependent Loss	dB	≤ 0.15	
Maximum Power Handling	mW	500	
Operating Temperature	°C	0 ~ 70	
Storage Temperature	°C	-40 ~ 85	
Humidity	--	5 ~ 95%	
Package Size	mm	Standard: Φ5.5xL34 (L40 for 900um loose tube) Mini Size: Φ3.0xL25	
Fiber Type	--	ITU-T G657.A	

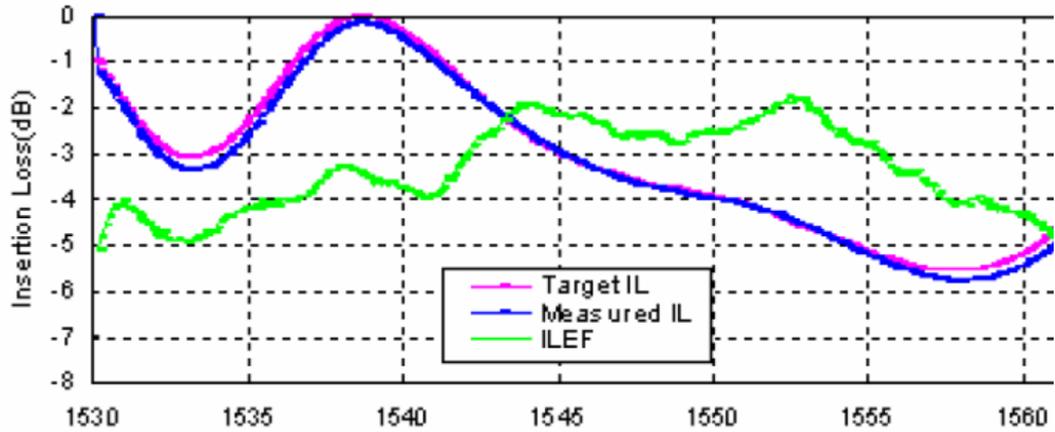
### NOTES:

- 1) All specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
- 2) PMD and chromatic dispersion values are guaranteed by design.
- 3) IL is 0.3 dB higher, RL is 5 dB lower for each connector added

**Packing Dimensions(mm)**



**Spectrogram(e.g. typical curve)**



**Ordering Information: (e.g.AIGFFD-11CS1060-1010-00)**

AIGFFD-	XX	xxx	X	X	XX	X	-	XX	XX	-	X	X	-	xxx
Port Configuration	Wavelength Range	Stage	Package	Fiber Type	Fiber Jacket	Fiber Length		Connector		Target Curve				
						Input	Output	Input	Output					
11=1x1	C=C Band	S=Single stage	1=5.5x34	06=G657.A1	0=250um Bare fiber	10=1.0m	10=1.0m	0=None	0=None					
XX=Customized	L=L Band	D=Dual stage	2=5.5x40	07=G657.A2	1=900um loose tube	12=1.2m	12=1.2m	1=FC/UPC	1=FC/UPC					
			4=3.0x25	XX=Customized	X=Customized	.....	.....	2=FC/APC	2=FC/APC					
			X=Customized			15=1.5m	15=1.5m	3=SC/UPC	3=SC/UPC					
						NA=N/A	NA=N/A	4=SC/APC	4=SC/APC					
						XX=Customized	XX=Customized	5=LC/UPC	5=LC/UPC					
								6=LC/APC	6=LC/APC					
								X=Customized	X=Customized					