redfern™
OPTICAL COMPONENTS

RDR3300 HIGH-RELIABILITY SLANTED FBG BASED GFF

KEY FEATURES

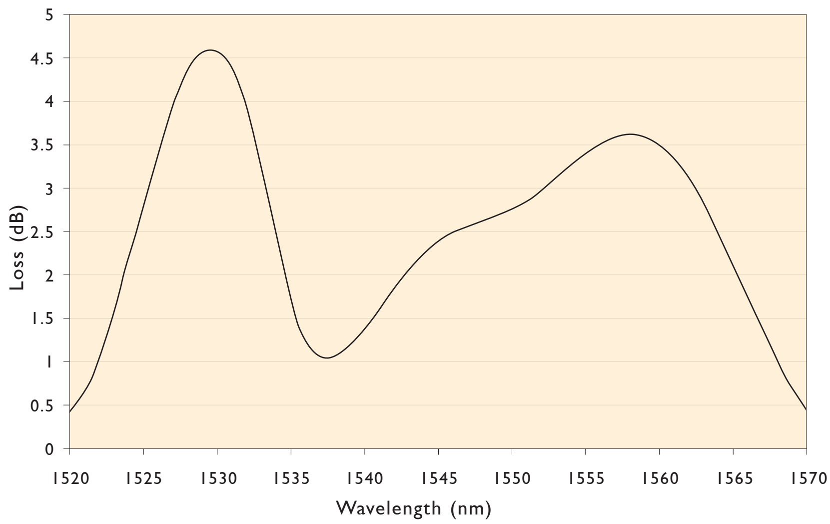
- No isolator or circulator required.
- Low back reflection <-25dB.
- Flattens gain curve to <+/-0.10dB for most applications.
- Very low systematic errors, average error reduces with the number of devices concatenated.
- Raman or EDFA shapes, up to 50nm bandwidth, 10dB peak loss.
- Rapid turnaround on prototypes or shape-correction filters.
- Qualified for Subsea applications.

DESCRIPTION

Redfern offer High-Reliability Gain-Flattening Filters (GFF) based on slanted fiber Bragg grating (FBG) technology for the minimisation of the OSNR penalty in an optical link. Slanted FBGs allow filter shapes to be implemented with very low back reflection and therefore require no isolator or circulator. All of our GFF products are custom designed and engineered to best match our customer's spectral loss requirements for a given link design. GFF shapes can be precisely matched to a measured loss budget or EDFA fiber gain profile.

SALES REP CONTACT INFORMATION:

SAMPLE SLANTED FBG LOSS SPECTRA



SPECIFICATIONS (Valid over operating temperature range)		
Component Parameters	**Specifications**	**Unit**
Loss spectrum shape	To customer data	
Wavelength range	1520 to 1570	(nm)
Peak loss	Up to 10	(dB)
Excess insertion loss	0.5 to 1.5	(dB)
Insertion loss variation (device to device)	+/-0.05	(dB)
Error function	+/-0.1	(dB)
Operating temperature	-5 to 70	(° C)
Storage temperature	-40 to 85	(° C)
PDL	<0.05	(dB)
PMD	<0.5	(ps)
Return loss	<-25	(dB)
Recoat dimensions	(Ø) 900µm x 50mm (long)	

PERFORMANCE, INTEGRITY & EXCELLENCE

REDFERN OPTICAL COMPONENTS: 4 Cornwallis St, Suite 102 National Innovation Centre, Australian Technology Park, Eveleigh 1430 NSW Australia.
T: +61 2 9209 4730 F: +61 2 9209 4728 W: www.redferncomponents.com FOR ORDERS CONTACT: sales@redferncomponents.com