

Athermal Packaged FBG

Athermal Packaged FBG is a method of compensating the temperature coefficient of fiber grating with a negative temperature coefficient packaging sleeve. It uses a material that does not have a negative temperature coefficient. The encapsulation sleeve can just fully compensate the wavelength drift caused by the temperature change of the FBG. The encapsulation results in a good temperature characteristic, in the environment of -10°C to 60°C , the temperature coefficient of the fiber grating can reach $1\text{pm}/^{\circ}\text{C}$, and has good long-term temperature characteristic.

Key Features

- 100G/50G Channel Spacing
- Low Insertion Loss
- Excellent Channel Isolation



Applications

- Regional and long haul DWDM Networks
- Wavelength reference

Specifications

Parameter	Unit	Value
Center Wavelength	nm	1460 ~ 1610
Bandwidth (FWHM)	nm	>0.2
Insertion Loss	dB	<0.2
SLSR	dB	>15
PDL	dB	<0.1
Wavelength Shift	pm/ $^{\circ}\text{C}$	<80pm (-5°C ~ $+70^{\circ}\text{C}$)
Fiber Type	--	SMF-28 or Compatible
Dimension	mm	5.5 * 64
Pigtail Length	m	1 (Typical), or Custom
Optical Connector	--	Bare Fiber, FC/APC, SC/APC, or Custom
Operating Temperature	$^{\circ}\text{C}$	-40 ~ +85