

# 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 -5°C to 70°C, the temperature coefficient of the fiber grating can reach 1pm/°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/°C	<1 (-5°C ~ +70°C)
Fiber Type	--	Single-Mode
Fiber Coating	--	Acrylate
Dimension	mm	Φ5.5 x 64
Pigtail Length	m	Standard 1m both ends, or custom
Optical Connector	--	Bare fiber, FC/APC, SC/APC, or custom
Storage Temperature	°C	-40 ~ +85