## **High Temperature FBG**

High temperature FBG is inscribed into a Polyimide coated fiber, which is excellent heat resisting (up to 300°C) and great adaptability in hash environment such as oil and gas, power station, etc. AtGrating can customize high temperature FBG for various applications.

## **Key Features**

- High stable wavelength
- High stable reflectivity
- High Temperature Operation
- Splice-free array

## **Applications**

- Bridges and highways
- Petroleum tanks and pipelines
- Power switch cabinet
- Aerospace

## **Specifications**

SPECTRAL WIDTH AN		ECTRUM ANA HOLD>					8 Mar 27	/DS
	.00dB		1955nm			B	FIX A-B	/BL
	.00		.488Ønm			D	FIX	
MODE FIT: OF	F	10DE: 1				E:	EIX	/BI
						G:	FIX	/BI
MEAS CONDITION>	sтор:1540.	200nm ce	INTER: 153	8.000nm	I SPA	N: 4.01	nm	
5.0 dB/D	RES: 0.020	nm sens:	HIGH1	AVG	. 1	SMPL: 10	Ø1 (MANU)	
-32.2	100101020	i	ium				UT (THEND)	
					1			
<u></u> µ3: −4	8.08dBm							
L4-43: -1	9.00dB		1		1	1	1	
-42.2 REF			• • • • • • • • • • • • • • • • • • • •	÷	+	·	·····	
dBm					1			
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1536.000 nm		15	38.000 nm		0.40	nm/D	1540.0	iaa.
10000.000		10.	~~•••••		0.40	SWP SWP	1040.0	201

Unit		Va	lue					
nm	1460 ~ 1610							
	Apodized							
nm	+/-0.5							
mm	3	5	10	15				
%	≥50%	≥70%	≥85%	≥90%				
nm	≪0.7	≪0.5	≪0.3	≪0.3				
dB	≥10	≥10	≥15	≥15				
	None, Polyimide or custom							
kpsi	>100							
	Single-Mode							
	Polyimide							
m	Standard 1m both ends, or custom							
	Bare Fiber, FC/APC, SC/APC, or custom							
°C	-40 ~ +300							
	nm  nm % % nm dB  kpsi  kpsi  m	nm  nm 3 % ≥50% nm ≤0.7 dB ≥10  kpsi  m 	nm   1460 -      Apoo     nm   +/-     mm   3   5     %   ≥50%   ≥70%     nm   ≤0.7   ≤0.5     dB   ≥10   ≥10      None, Polyim     kpsi   >1      Single      Polyi     m   Standard 1m both      Bare Fiber, FC/APC	nm 1460 ~ 1610    Apodized   nm +/-0.5   mm 3 5 10   % ≥50% ≥70% ≥85%   nm ≤0.7 ≤0.5 ≤0.3   dB ≥10 ≥10 ≥15    None, Polyimide or custom   kpsi >100 >100    Single-Mode    m Standard 1m both ends, or custom    Bare Fiber, FC/APC, SC/APC, or custom				