

## 高功率啁啾光纤布拉格光栅（CFBG）

AUT 系列啁啾光纤布拉格光栅(CFBG-[上海昊量光电设备有限公司](#))便是其中最优秀的一款高功率啁啾光纤布拉格光栅（CFBG）。它具有高功率、展宽量大、波长范围宽、损耗小等显著特点，广泛的应用在超快光学领域。在时域方面，它可以展宽脉冲的宽度，降低峰值功率以避免非线性因素在放大过程中的影响。

AUT 系列啁啾光纤布拉格光栅（CFBG）具有优良的特性：

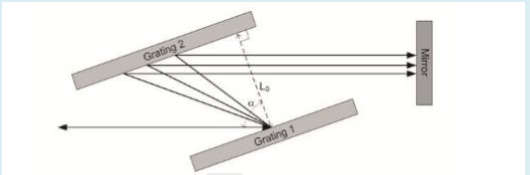
- 高功率；
- 展宽量大；
- 低插损；
- 可定制；
- 全光纤结构；
- 多种封装结构；

啁啾光纤布拉格光栅（CFBG）主要参数

Parameters	Specifications	Unit
Wavelength Range	750-2100	nm
Bandwidth	0.015 to 100	nm
Total Stretching	Up to 10	ns
Dispersion Rate	0.01-2000	ps <sup>2</sup>
Reflectivity	>99.0	%
High Order Dispersion Compensation	$\beta_2, \beta_3, \beta_4, \beta_5$ and $\beta_6$	
Fiber Type	SM,PM,LMA	
Package	Recoated、 Loose Tube、 Athermal、 Module with Circulator	

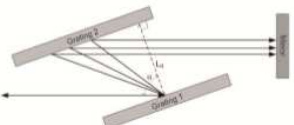
此外，我司可提供常规波长的啁啾光纤布拉格光栅（CFBG），如 1030nm,具体参数如下：

Parameters	Specifications	Unit
Wavelength Range (Slow axis)	1030+/-0.5	nm
Min. Reflectivity Over 80% of FWHM (2)	>35%	%
Reflection Bandwidth @ -3 dB FWHM	20 ± 1	nm
D2 (3)	-55.72	Ps/nm
D3 (3)	-0.967	ps/nm <sup>2</sup>
Spectral Shape	Flat top	
Wavelength Referenced to	Air	

Connectors Type	None	
Fiber Type	PM980	
Package Type	UV Cured Acrylate + Rigid Loose Tube	
Pigtails Length (On Each Side)	$\geq 1$	m
Parameters	Matched Treacy Compressor Specification	Unit
Grooves Density		
Perpendicular Distance $L_0$ Between Diffraction Gratings		
Gratings Angle of Incidence $\alpha$		
Medium Standing Between the Gratings		

如您有需要，欢迎咨询上海昊量光电设备有限公司，电话：021-34241976, 或 186-2116-8645 。

Parameters	Specifications	Units
Center Wavelength ( $\lambda_0$ ) @ Room T° <sup>(1)</sup> (Slow Axis)	1030 ± 0.5	nm
Min. Reflectivity Over 80% of FWHM <sup>(2)</sup>	> 35	%
Reflection Bandwidth @ -3 dB FWHM	20 ± 1	nm
D <sub>2</sub> <sup>(3)</sup>	-55.72	ps/nm
D <sub>3</sub> <sup>(3)</sup>	-0.967	ps/nm <sup>2</sup>
Spectral Shape	Flat top	
Wavelength Referenced to	Air	
Connectors Type	None	
Fiber Type	PM980	
Package Type	UV Cured Acrylate + Rigid Loose Tube	
Pigtails Length (On Each Side)	≥ 1	m

Parameters	Matched Treacy Compressor Specifications	Units
Grooves Density		1740
Perpendicular Distance L <sub>0</sub> Between Diffraction Gratings		14.5
Gratings Angle of Incidence $\alpha$		60.0
Medium Standing Between the Gratings		Air

(1): Room temperature [20-23°C]

(2): Long wavelengths reflected first

(3): The group delay function is:  $GD = D_2(\lambda - \lambda_0) + D_3(\lambda - \lambda_0)^2 + D_4(\lambda - \lambda_0)^3$

# 昊量光电