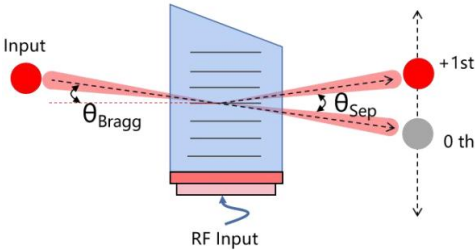


AOFS Specifications
声光移频器产品规格书
FS1002-TS042_000-030-633



1. SPECIFICATIONS (规格)

Interaction material (介质材料)	Tellurium dioxide (二氧化碲)
Acoustic mode (声波模式)	Shear (切变波)
Operating wavelength (工作波长)	633 nm
Polarization of incident beam (入射光偏振)	Linear, horizontal to base (线偏振, 水平于基座)
Polarization of 1st order beam (1级光偏振)	Linear, vertical to base (线偏振, 垂直于基座)
Polarization of 0 order beam (0级光偏振)	Linear, horizontal to base (线偏振, 水平于基座)
Transmission (透过率)	>98 %
Active aperture (有效孔径)	3.0 mm
Center frequency (Fc) (中心频率)	42 MHz
Frequency shift bandwidth (FB) (移频带宽)	0 MHz
Frequency drift / °C (频漂)	<±0.1 ppm
Diffraction efficiency (衍射效率)	>85 %
RF power (射频功率)	1 W (max)
Input impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 1.2:1
RF connector (射频接头)	SMA-F
Cooling (散热方式)	Conduction-cooled (传导冷却)

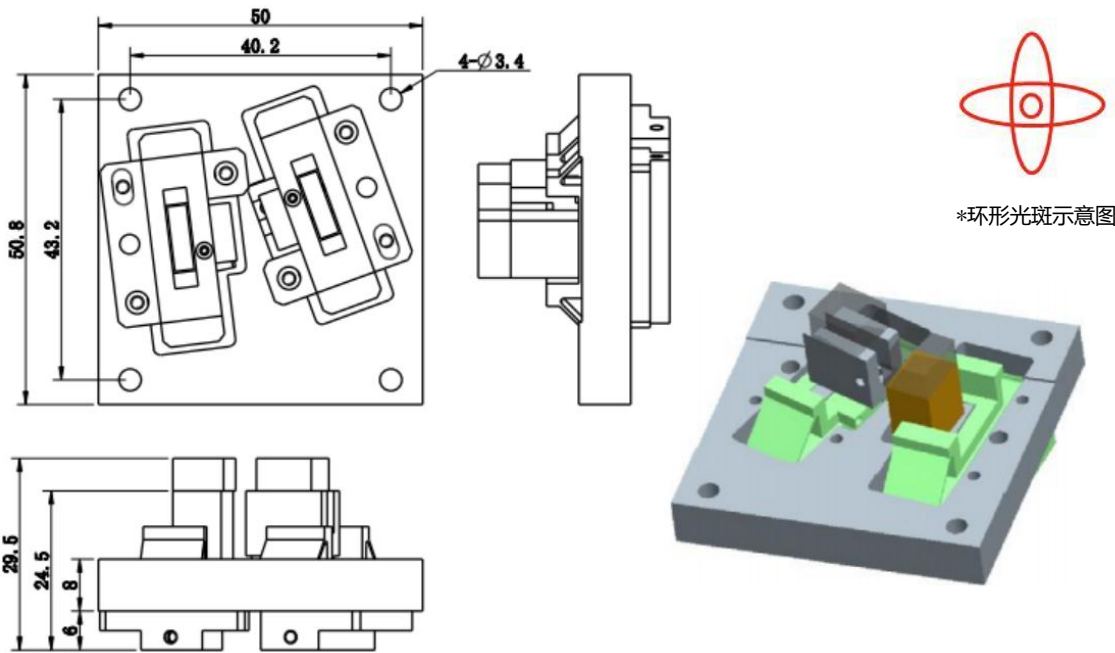
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	633 nm
Separation angle (分离角) @Fc	40.1 mrad

3. ORDERING CODES (编码规则)

		Materials		Acoustic type		Fc	DB	Active aperture		Wavelength		
FS0001	—	X		X		XXX	—	XXX	—	XXX	XXXX	
	QZ	Q	Longitudinal Shear	L	27.12 MHz	027	000	0 MHz	040	4 mm	1030	1030 nm
	TeO ₂	T		S	40.68 MHz	041	003	3 MHz	060	6 mm	1064	1064 nm
	Ge	G			80 MHz	080	010	10 MHz	080	8 mm	9600	9600 nm

4. DIMENSIONS (外形尺寸-mm)



*器件工作时产生的环形光斑属于声光原理决定的正常现象。

5. SUGGESTED RF DRIVER ELECTRONICS (建议驱动型号)

6. REVISION (版本)

Number (版本号)	Revisions date (修订日期)	Revision (修改项目)	Revision description (修订内容说明)
A	2022. 7. 7	New	/
B	2024. 7. 24	Revise	增加光斑说明

Quality Assured: In house made, high damage threshold, Vacuum bonding, 100% Diffraction efficiency test & burn-in test.