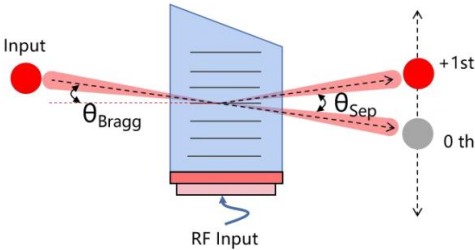


AOFS Specifications
声光移频器产品规格书
FS1020-TS110_020-030-633



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)	633nm
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)	> 97%
Active aperture (有效孔径)	3.0mm
Center frequency (Fc) (中心频率)	110MHz
Frequency shift bandwidth (移频带宽)	20MHz
Frequency drift / °C (频漂)	< ±0.1ppm
Diffraction efficiency (衍射效率)	> 70%
RF power (射频功率)	4W (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)
Shell material (外壳材料)	Aluminum alloy (铝合金)

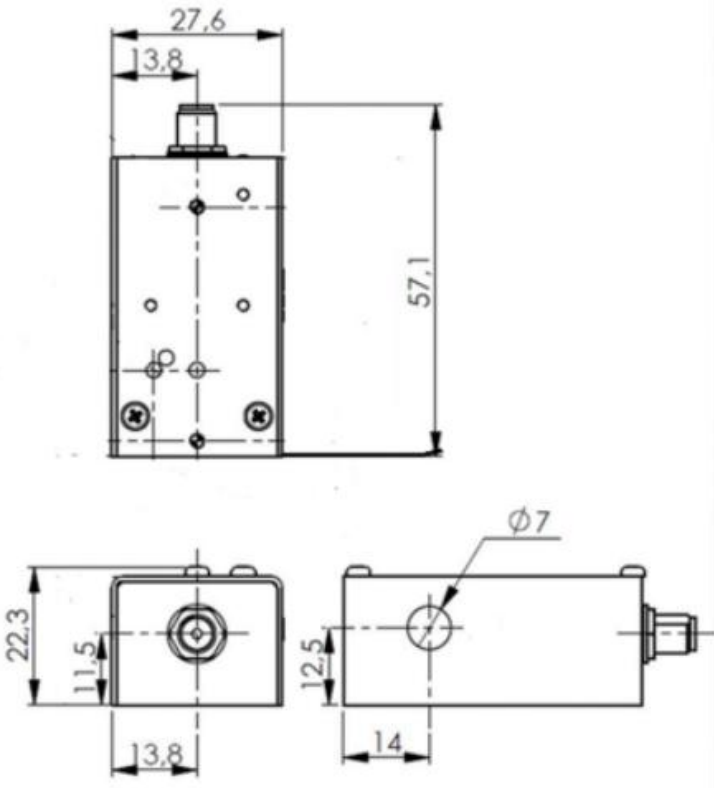
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	633nm
Separation angle (分离角) @Fc	112mrad
Scan angle (扫描角度) @RB	20mrad

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）



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

RB2012-110_20-24-004-CT

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	2024. 12. 6	New	/

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