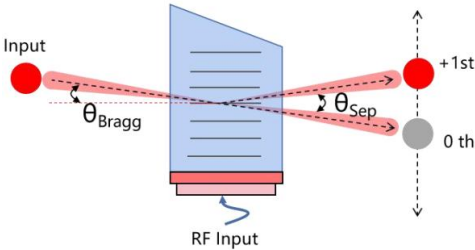


AOFS Specifications
声光移频器产品规格书
FS1001-TS020_000-030-633



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)	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)	20MHz
Frequency shift (移频量)	0 MHz
Frequency drift / °C (频漂)	< ±0.1ppm
Diffraction efficiency (衍射效率)	> 85%
RF power (射频功率)	0.3 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)
Shell material (外壳材料)	Aluminum alloy (铝合金)

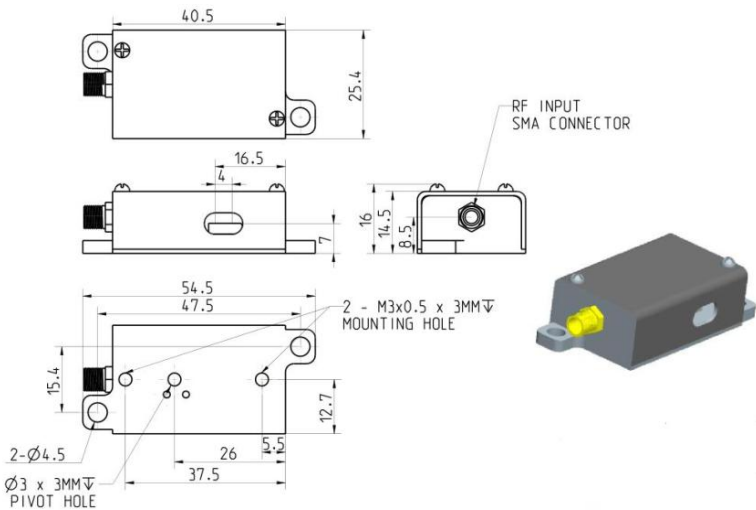
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	633nm
Separation angle (分离角) @Fc	17.4 mrad

3. ORDERING CODES (编码规则)

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

4. DIMENSIONS (外形尺寸-mm)

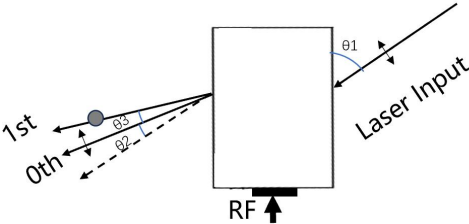


5. BEAM SPECIFICATION (光束规格)

Input angle θ_1 (入射角) : $65^\circ \pm 2^\circ$
Output angle θ_2 (出射角) : $5.6^\circ \pm 0.2^\circ$
Separation angle θ_3 (分离角) : $1^\circ \pm 0.2^\circ$



*环形光斑示意图



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

RD1054-020-24-003-CA

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.