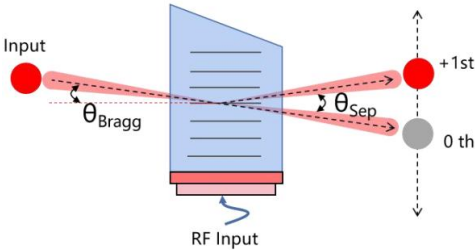


A0FS Specifications
声光移频器产品规格书
FS1005-TS042-030-633



1. SPECIFICATIONS (规格)

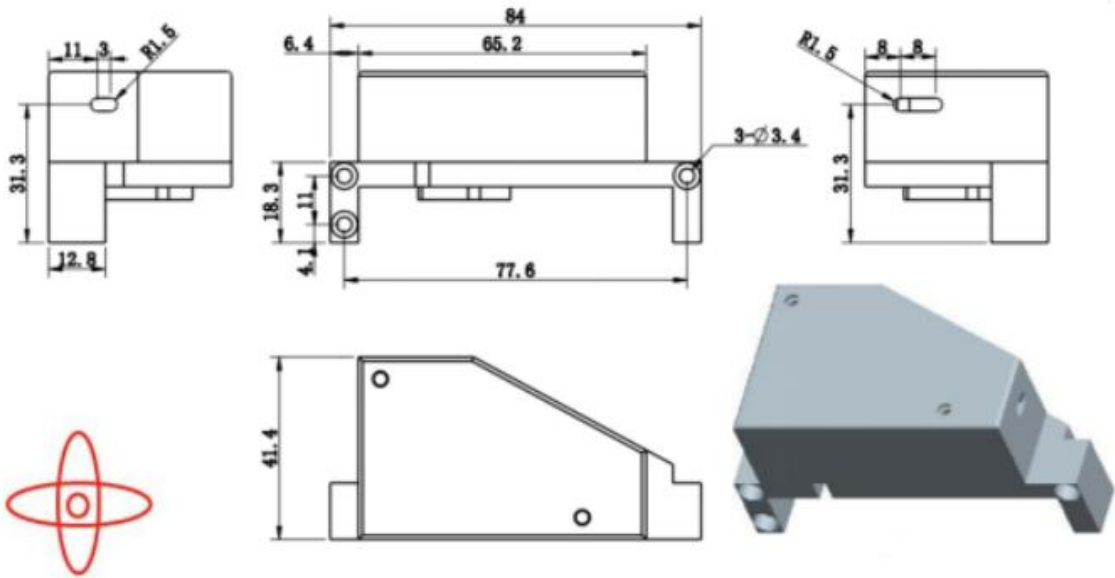
Interaction material (介质材料)	Tellurium dioxide (二氧化碲)
Acoustic mode (声波模式)	Shear (切变波)
Operating wavelength (工作波长)	633nm
Polarization of incident beam (入射光偏振)	Linear, horizontal to base (线偏振, 水平于基座)
Polarization of 1st order beam (1级光偏振)	Linear, vertical to base (线偏振, 垂直于基座)
Polarization of 0 order beam (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)	42MHz
Frequency drift / °C (频漂)	< ±10ppm
Diffraction efficiency (衍射效率)	> 85%
RF power (射频功率)	<1W
Input Impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 2.5:1
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 6063 (铝6063)

*器件工作室产生的环形光斑属于声光原理决定的正常现象。

2. ORDERING CODES（编码规则）

	Fc		RB		Active aperture		Wavelength
FS1001—TS	XXX	—	XXX	—	XXX	—	XXXX
20 MHz	020		010	10 MHz	010	1 mm	266 266 nm
42 MHz	042		050	50 MHz	020	2 mm	355 355 nm
73 MHz	073		080	80 MHz	030	3 mm	633 633 nm

3. DIMENSIONS（外形尺寸—mm）



*环形光斑示意图

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

RD1064-115-24-003-CA

5. 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. 22	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.