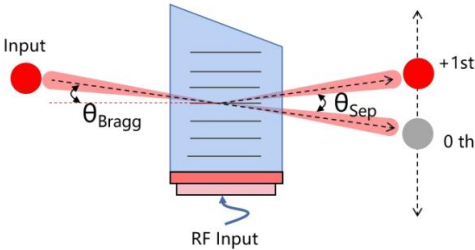


AOFS Specifications
声光移频器产品规格书
FS1016-TS040_010-017-633



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)	633-830nm
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)	1.7mm
Center frequency (Fc) (中心频率)	40MHz
RF bandwidth(RB) (移频带宽)	10MHz
Frequency drift / °C (频漂)	< ±0.1ppm
Diffraction efficiency (衍射效率)	> 80%
RF power (射频功率)	3W
Input Impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 1.5:1
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 (铝合金)

*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。

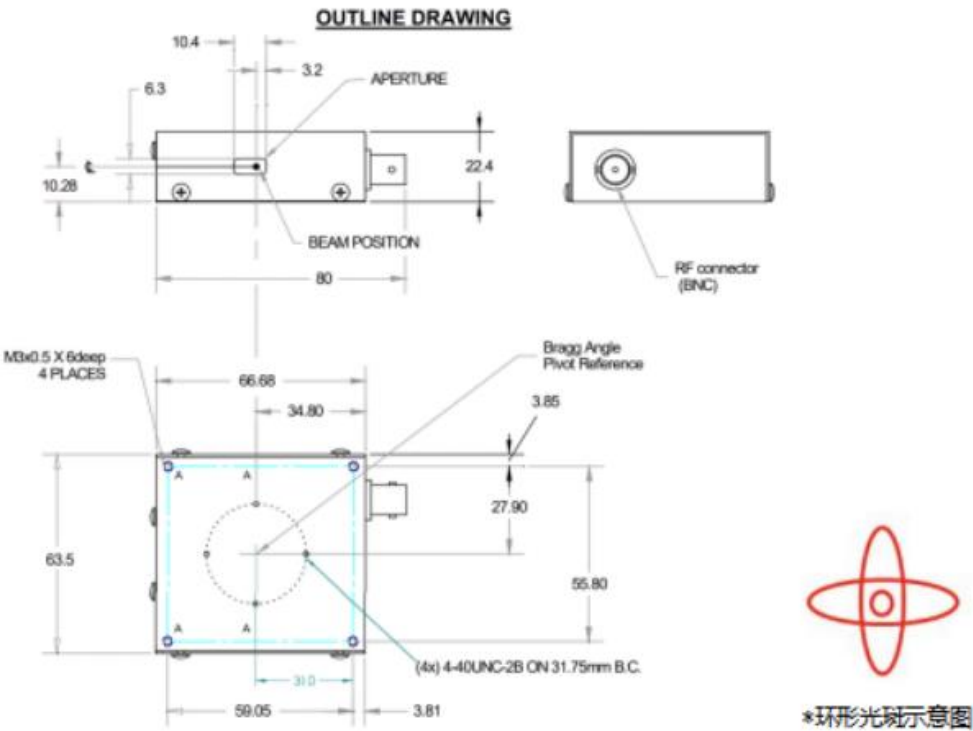
2. PERFORMANCEvs. WAVELENGTH (性能vs. 波长)

Wavelength (光波长)	633nm	830nm
Separation angle (分离角) @Fc	6.0mrad	7.9mrad
Separation angle (扫描角) @Fc	1.5mrad	1.97mrad

3. 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

4. DIMENSIONS（外形尺寸—mm）



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

RD1012-040_10-24-003-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. 5. 13	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.