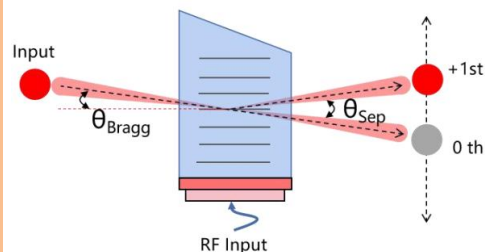


AODF Specifications 声光偏转器产品规格书 DF1021-TS080_040-015-580



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)	580nm
Polarization (射光偏振)	Linear, horizontal to base (线偏振, 水平于基座)
Transmission (透过率)	> 95%
Active aperture (有效孔径)	1.5mm
Center frequency (Fc) (中心频率)	80MHz
RF bandwidth (RB) (射频带宽)	40MHz
Diffraction efficiency (衍射效率) @RB	> 70%
RF power (射频功率)	2W (max)
Input Impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 3:1
RF connector (射频接头)	SMA-F
Cooling (散热方式)	Water cooling (水冷散热)
Shell material (外壳材料)	Aluminum alloy (铝合金)
Water cooling channel material (水冷块材料)	Stainless steel (不锈钢)

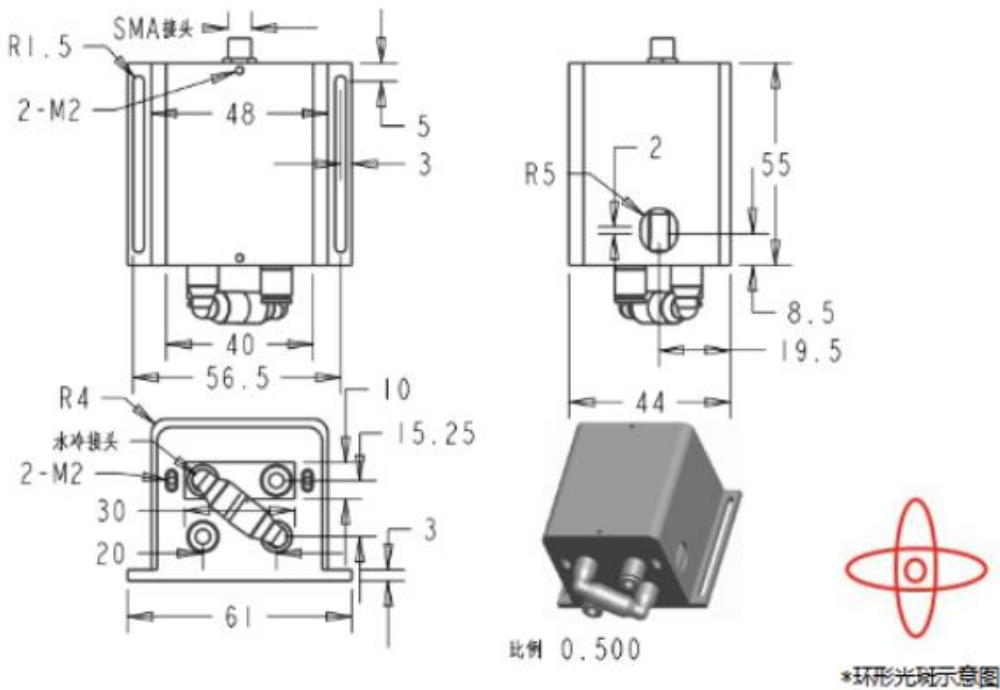
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	580 nm
Separation angle (分离角) @Fc	71.3 mrad
Scan angle (扫描角度) @RB	35.6 mrad

3. ORDERING CODES (编码规则)

Materials			Acoustic type		Fc	DB	Active aperture		Wavelength			
DF0001	—	X		X	XXX	—	XXX	—	XXX	XXXX		
	QZ	Q	Longitudinal	L	27.12MHz	027	000	0MHz	040	4mm	1030	1030nm
	TeO ₂	T		Shear	S	40.68MHz	041	003	3MHz	060	6mm	1064
	Ge	G			80MHz	080	010	10MHz	080	8mm	9600	9600nm

4. DIMENSIONS (外形尺寸-mm)



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

RB2006-105_90-24-003-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. 10. 11	New	/

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