

AODF Specifications
声光偏转器产品规格书
2DF1012-TS080_030-050-515



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)	505~525nm
Polarization(光偏振)	Linear, vertical to base (线偏振, 垂直于基座)
Transmission (透过率)	> 95%
Active aperture (有效孔径)	5mm
Center frequency (Fc) (中心频率)	80MHz
RF bandwidth(RB) (射频带宽)	30MHz
Diffraction efficiency (衍射效率) @RB	> 50%
RF power (射频功率)	3W (max)
Input Impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 2.1:1
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)

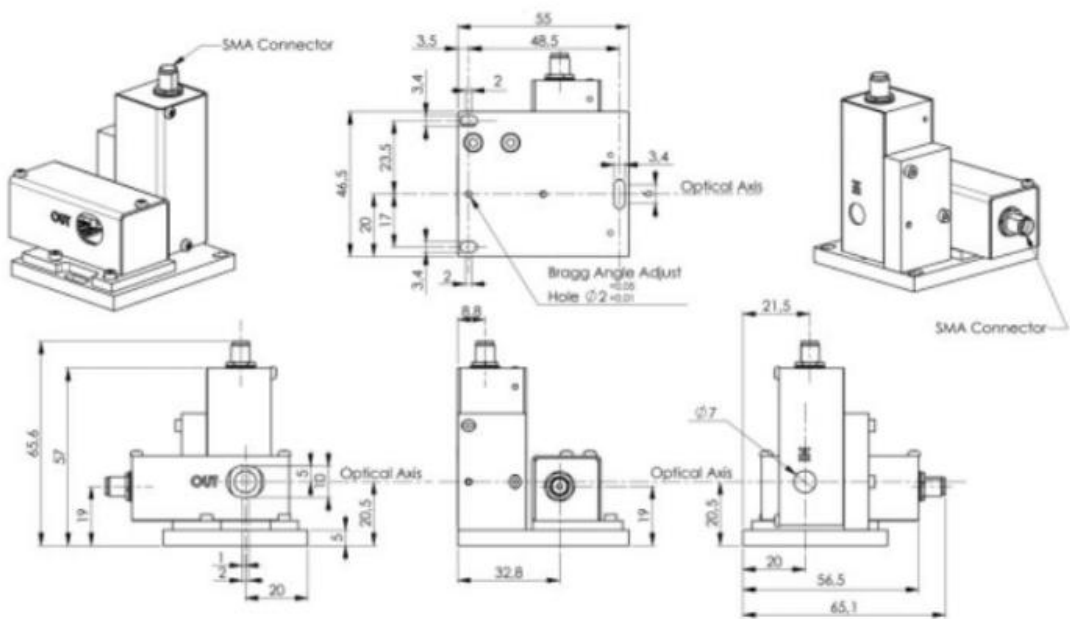
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	515 nm
Braggangle (布拉格角) @Fc	32.29 mrad
Separation angle (分离角) @Fc	64.58 mrad
Scan angle (扫描角度) @RB	24.2 mrad

3. ORDERING CODES (编码规则)

Fc	RB	Active aperture	Wavelength
2DF1001—TS XXX —	XXX —	XXX —	XXXX
27.12 MHz 027	010	10 MHz 040 4 mm	266 266 nm
40.68 MHz 041	050	50 MHz 060 6 mm	355 355 nm
80 MHz 080	080	80 MHz 080 8 mm	

4. DIMENSIONS (外形尺寸-mm)



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

RB1008-080_30-24-003-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. 27	New	/

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