

AODF Specifications
声光偏转器产品规格书
DF2015-GL041_020-080-9600



1. SPECIFICATIONS (规格)

Interaction material (介质材料)	Germanium (锗)
Acoustic mode (声波模式)	Longitudinal (纵波)
Operating wavelength (工作波长)	9600nm
Polarization (光偏振)	Linear, parallel to base (线偏振, 平行于基座)
Transmission (透过率)	> 93%
Active aperture (有效孔径)	8mm
Center frequency (Fc) (中心频率)	40.68MHz
RF bandwidth (RB) (射频带宽)	20MHz
Diffraction efficiency (衍射效率) @RB	> 80%
RF power (射频功率)	100W (max)
Input Impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 2:1
RF connector (射频接头)	BNC-F
Cooling (散热方式)	Water cooling (水冷散热)
Shell material (外壳材料)	Aluminum alloy 6063 (铝6063)
Water cooling channel material (水冷块材料)	Stainless steel 316 (不锈钢316)

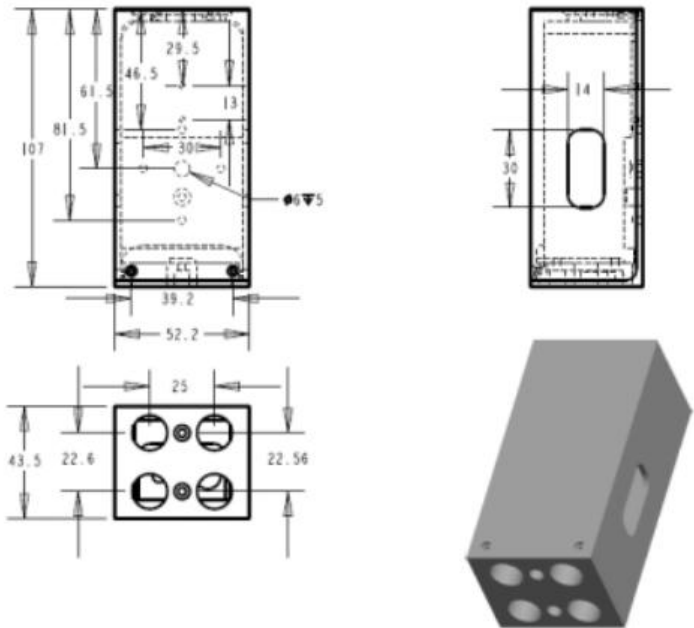
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	9600 nm
Bragg angle (布拉格角) @Fc	35.5 mrad
Separation angle (分离角) @Fc	71 mrad
Scan angle (扫描角度) @RB	35 mrad

3. ORDERING CODES (编码规则)

Fc		RB		Active aperture		Wavelength	
DF0001—QL	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)

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. 10. 13	New	/

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