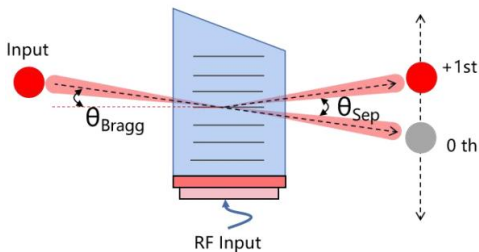


AODF Specifications
声光偏转器产品规格书
DF2009-QL100_30-040-405



1. SPECIFICATIONS (规格)

Interaction material (介质材料)	Crystal quartz (石英)
Acoustic mode (声波模式)	Longitudinal (纵波)
Operating wavelength (工作波长)	405nm
Polarization (光偏振)	Linear, perpendicular to base (线偏振, 垂直于基座)
Transmission (透过率)	> 99%
Active aperture (有效孔径)	4.0×4.0mm
Center frequency (Fc) (中心频率)	100MHz
RF bandwidth (RB) (射频带宽)	30MHz
Diffraction efficiency (衍射效率) @RB	> 50%
RF power (射频功率)	15W (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)	Conduction-cooled (传导冷却)
Shell material (外壳材料)	Aluminum alloy (铝合金)

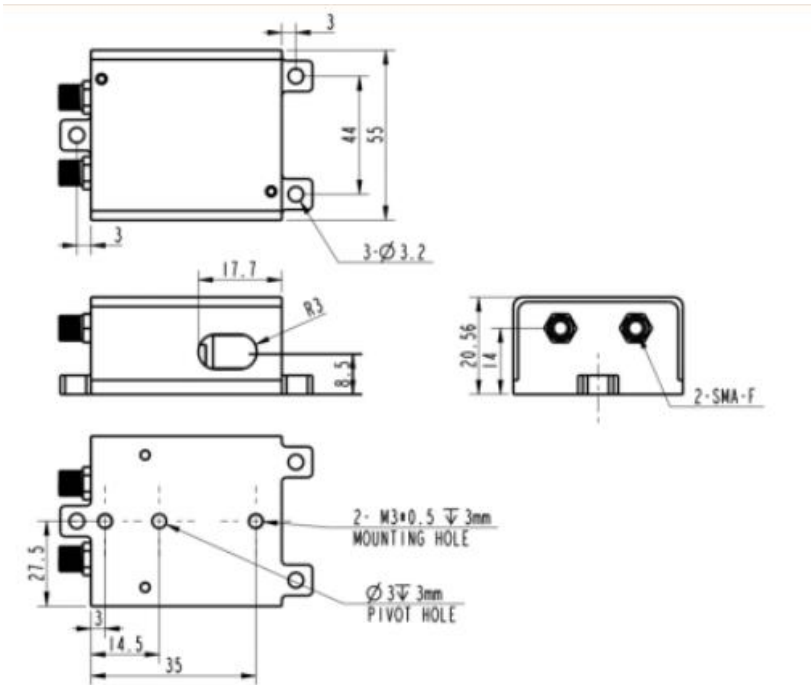
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	405 nm
Bragg angle (布拉格角) @Fc	3.5 mrad
Separation angle (分离角) @Fc	7 mrad
Scan angle (扫描角度) @RB	2.1 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)

RB2003-110_60-24-020-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	2022. 10. 13	New	/
B	2024. 9. 2	Revise	更正参数及驱动型号

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