

AODF Specifications
声光偏转器产品规格书
DF1019-TS075_030-040-920



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)	920nm
Polarization (射光偏振)	Linear, perpendicular to base (线偏振, 垂直于基座)
Transmission (透过率)	> 99%
Active aperture (有效孔径)	4.0mm
Center frequency (Fc) (中心频率)	75MHz
RF bandwidth (RB) (射频带宽)	30MHz
Diffraction efficiency (衍射效率) @RB	> 80%
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)

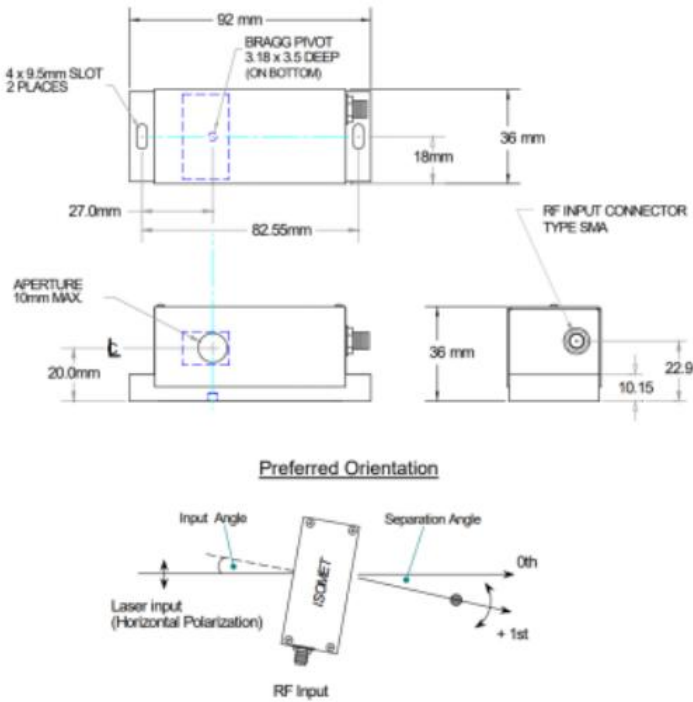
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	920 nm
Bragg angle (布拉格角) @Fc	50.66 mrad
Separation angle (分离角) @Fc	101.32 mrad
Scan angle (扫描角度) @RB	40.52 mrad

3. ORDERING CODES (编码规则)

Fc		RB		Active aperture		Wavelength	
DF0001—QL	XXX	—	XXX	—	XXX	—	XXX
27.12 MHz	027	—	010	10 MHz	040	4 mm	266 nm
40.68 MHz	041	—	050	50 MHz	060	6 mm	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_60-24-003-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. 6. 3	New	/

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