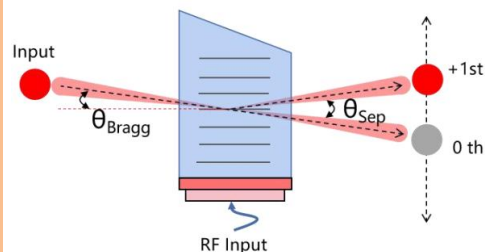


AODF Specifications 声光偏转器产品规格书 DF2022-TS080_040-010-633



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)	633nm
Polarization (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)	1mm
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)	3W (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)

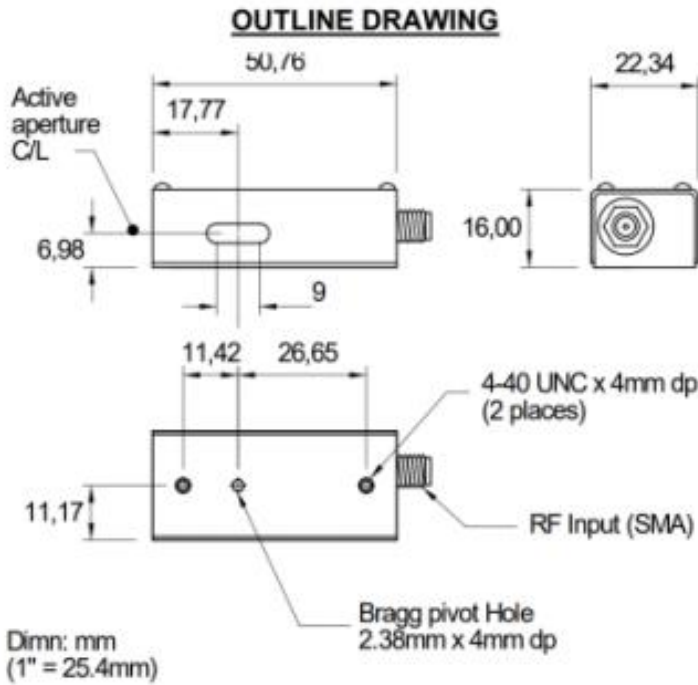
2. PERFORMANCE vs. WAVELENGTH (性能 vs. 波长)

Wavelength (光波长)	633 nm
Separation angle (分离角) @Fc	82 mrad
Scan angle (扫描角度) @RB	41 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)

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. 12. 18	New	/

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