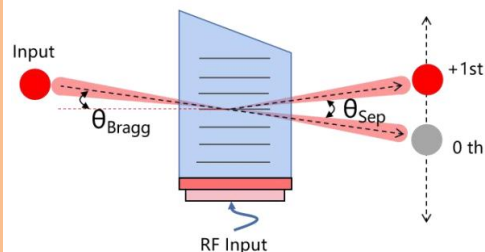


AQ Specifications

声光Q开关产品规格书

Q0047-TL080-012-1030



1. SPECIFICATIONS (规格)

Interaction material (介质材料)	Tellurium dioxide (二氧化碲)
Acoustic mode (声波模式)	Longitudinal (纵波)
Operating wavelength (工作波长)	1030 nm
Polarization (光偏振)	Linear, vertical to base (线偏振, 垂直基座)
Transmission (透过率)	> 99 %
Active aperture (有效孔径)	1.2 mm
Center frequency (中心频率)	80 MHz
Loss modulation (损耗调制)	> 85%
RF power (射频功率)	3.3W (MAX)
Input impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 1.3:1
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)
Storage temperature (存储温度)	-20~70 °C

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

Wavelength (光波长) -nm	1030
Bragg angle (布拉格角) -mrad	9.8
Separation angle (分离角) -mrad	19.6

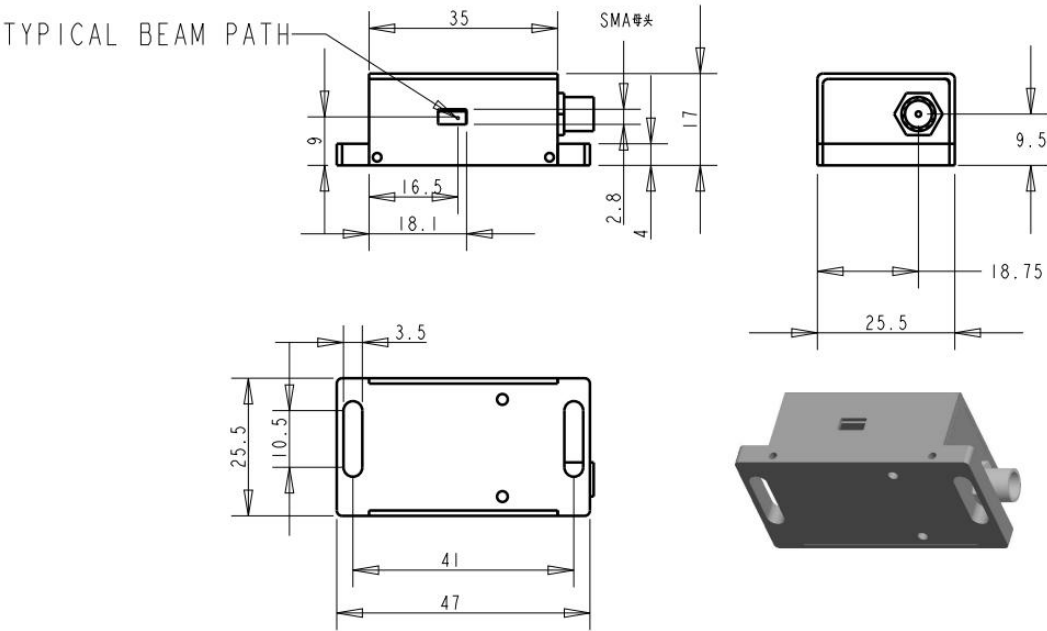
3. ESTIMATED PERFORMANCE vs. BEAM DIAMETER (预估性能 vs. 光束直径)

Beam diameter (光束直径) -mm	1.2
Rise time (上升沿时间) -ns	155
Loss modulation (损耗调制)	85 %

4. ORDERING CODES (编码规则)

	Materials		Acoustic type		Fc	Active aperture		Wavelength	
Q0001	—	X	X	X	XXX	—	XXX	—	XXXX
	QZ	Q	Longitudinal	L	27.12 MHz	027	040	4 mm	1030 1030 nm
	TeO ₂	T	Shear	S	40.68 MHz	041	060	6 mm	1064 1064 nm
	Ge	G			80 MHz	080	080	8 mm	9600 9600 nm

5. DIMENSIONS (外形尺寸-mm)



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

RD1051-080-24-003-CA

7. 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. 8. 29	New	/

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