

AOQ Specifications
声光Q开关产品规格书
Q0033-QL068-030-1030



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)	1030 nm
Polarization (光偏振)	Linear, vertical to base (线偏振, 垂直于基座)
Transmission (透过率)	> 99.6%
Active aperture (有效孔径)	3 mm
Center frequency (中心频率)	68 MHz
Loss modulation (损耗调制)	>85%
RF power (射频功率)	25W (max)
Input impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比) @Fc	< 1.2:1
RF connector (射频接头)	SMA-M
Cooling (散热方式)	Conduction-cooled (传导散热)
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	6.1
Separation angle (分离角) -mrad	12.2

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

Beam diameter (光束直径) -mm	1	2	3
Rise time (上升沿时间) -ns	113	226	339
Loss modulation (损耗调制)	85%	85%	85%

	Materials		Acoustic type		Fc	Active aperture		Wavelength			
Q0001	—	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

Technical drawing of the SMA-M antenna assembly, showing isometric and orthographic views with dimensions and labels.

Isometric View: Shows the antenna assembly with a yellow SMA-M connector and a cable. Dimensions: 22.5 (height), 4 (width), 49 (length), 42 (width), 50 (length).

Front View: Shows the antenna assembly with dimensions: 22.5 (height), 4 (width), 49 (length), 42 (width), 50 (length).

Side View: Shows the antenna assembly with dimensions: 24 (height), 12 (width), 25 (length), 41 (width), 4 (length), 12 (height), 22 (length), 24.5 (width).

Top View: Shows the antenna assembly with dimensions: 14.75 (width), 19.5 (width), 3.5 (height), 7.5 (height).

Labels: 3- $\varnothing 3.2$ Mounting Hole, Cable Clamp, SMA-M.

RD1023-068-24-025-CZ

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. 28	NEW	NEW

Page 2