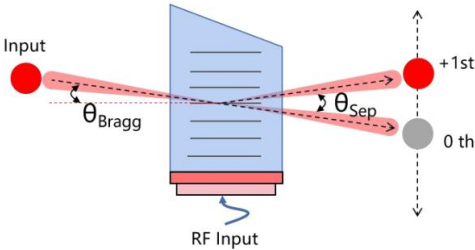


FAOM Specifications
光纤耦合声光调制器产品规格书
FM0042-TL100-F08-1940



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)	1940nm
RF frequency (射频频率)	100MHz
Average optical power handling (激光平均功率)	5W
Fiber type (光纤类型)	双包层10/130, NA0.14±0.01
Fiber length (光纤长度)	>1m
Fiber termination (光纤尾端)	Bare fiber (裸纤) 0.2m
RF power (射频功率)	4W (max)
Input Impedance (输入阻抗)	50Ω Nominal
VSWR (驻波比)	< 1.2:1
RF connector (射频接头)	SMA-F
Cooling (散热方式)	Conduction-cooled (传导散热)
Shell material (外壳材料)	Aluminum alloy 6063 (铝6063)
Storage temperature (存储温度)	-20~70℃

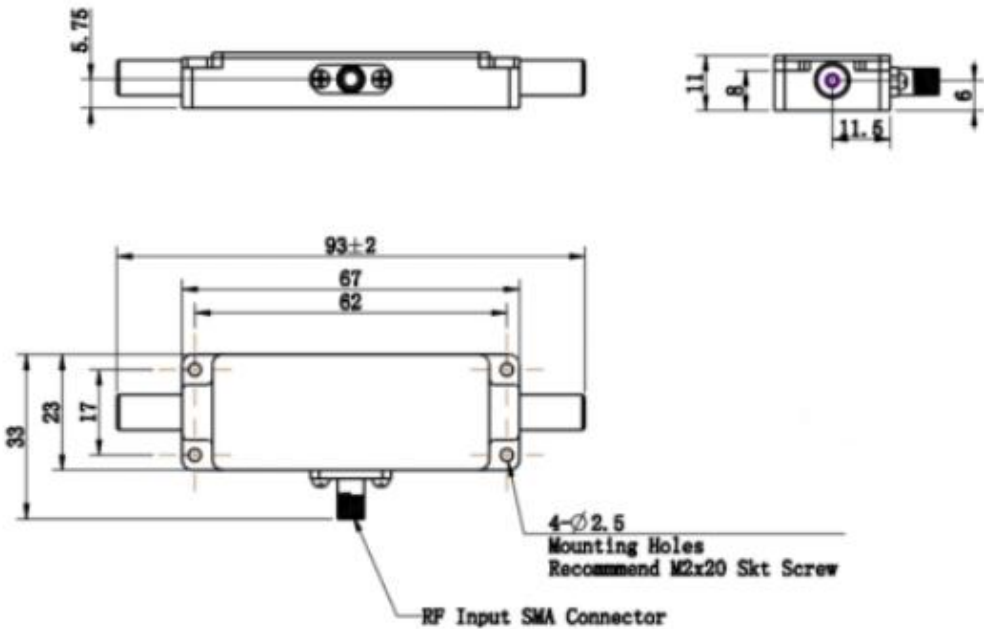
2. PERFORMANCE (性能)

Insertion loss (插入损耗)	≤2.5dB
Extinction ratio (消光比)	≥50dB
Return loss (回波损耗)	≥-40dB
Rise/Fall time (上升/下降时间)	≤50ns

4. ORDERING CODES (编码规则)

	Materials		Acoustic type		Fc	Fiber type		Wavelength	
FM0001	—	X	X	X	XXX	—	XXX	—	XXXX
	TeO ₂	T	Longitudinal	L	80 MHz	080	P02	PM980	1064 nm
	QZ	Q	Shear	S	120 MHz	120	P09	PM10/125	1550 nm
					200 MHz	200			

5. DIMENSIONS (外形尺寸-mm)



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

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	2023. 9. 25	New	/

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