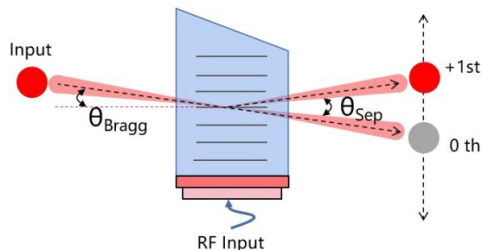


RF Driver Specifications 射频驱动器产品规格书 RD1065-125-24-020-CA



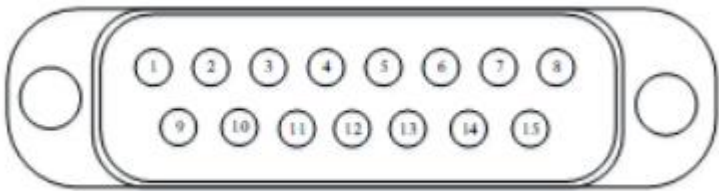
1. SPECIFICATIONS (规格)

RF frequency (频率频率)	125MHz
Frequency stability (频率稳定度)	$\pm 40\text{ppm}/^{\circ}\text{C}$
Output power (输出功率)	1-20W
VSWR (输出驻波比)	1.2/1
Linearity (线性度)	1.1/1
Digital Extinction ratio (数字消光比)	$> 45\text{dB}$
Analog Extinction ratio (模拟消光比)	$> 45\text{dB}$
Digital rise&fall time (数字调制上升&下降时间) (10%-90%)	20-50ns
Trigger frequency (触发频率)	DC-1MHz
Trigger delay (触发延迟)	$50 \pm 10\text{ns}$
Logic (逻辑)	TTL_HIGH=RF_OUTPUT
Digital input (数字输入)	Low $<0.8\text{V}$, $3.3\text{V}<\text{High}<5\text{V}@1.5\text{k}\Omega$
Analog input (模拟输入)	0-5V@10k Ω
Second and multiple harmonics (二次及多次谐波)	$<-25\text{dBc}$
Output Impedance (输出阻抗)	50 Ω
Supply voltage (供电电压)	+24VDC $\pm 1\%$
Supply current (供电电流)	2A@20W
Cooling (散热方式)	Conduction cooling (传导冷却)
Temperature Range (温度范围)	10-50 $^{\circ}\text{C}$ 环境温度

2. ORDERING CODES (编码规则)

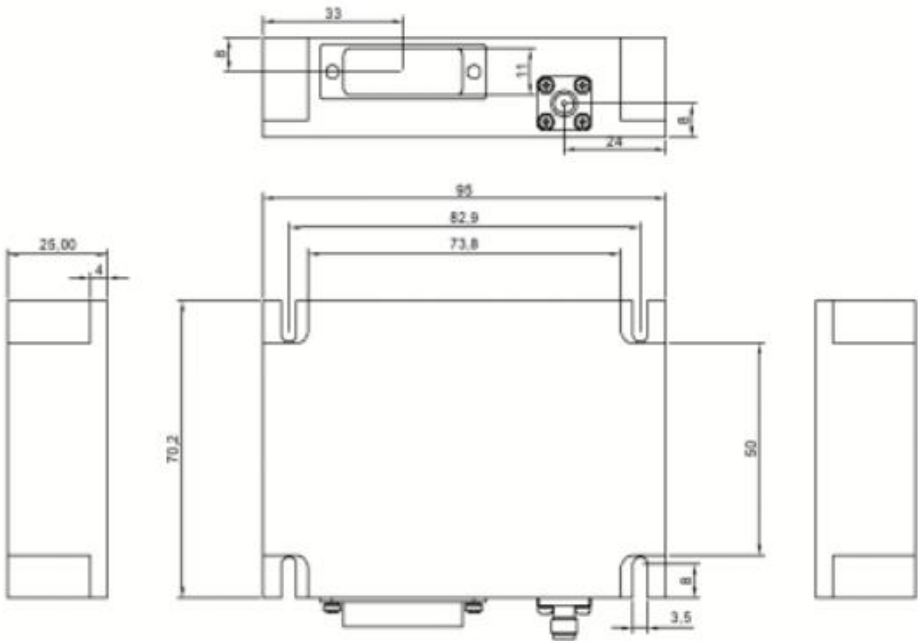
	C/F	Supply voltage	PWR	IC/work mode	
RD1001—	XXX	— XXX —	XXX	— XX	
27.12 MHz	027	024 24 V	050 50 W	SA	散热片冷却, A05模式;
40.68 MHz	041	048 48 V	100 100 W	CF	传导冷却, FPS模式;

3. Interface difinition (接口定义)

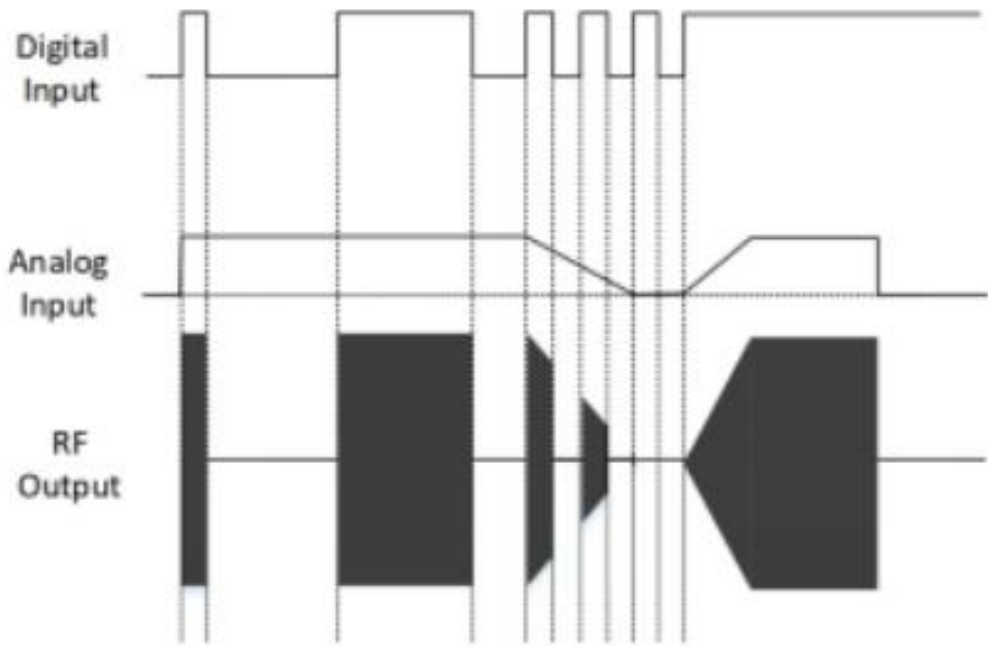


名称	引脚	功能
Digital	5	外部数字信号控制(3.3-5V)
Analogue	6	外部模拟信号控制(0-5V)
GND	4	地
+24V	12	供电
NC	1, 2, 3, 7, 8, 9, 11, 13, 14, 15	/

4. DIMENSIONS (外形尺寸-mm)



5. Control Logic (控制逻辑)



6. SUGGESTED A0 Device (建议声光器件型号)

M0051-QL125-010-780

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. 4	New	/

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