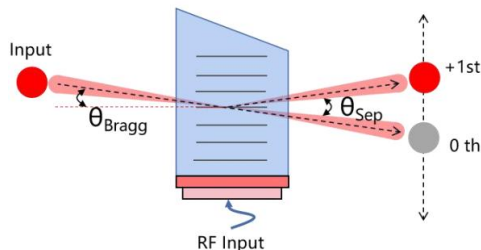


RF Driver Specifications 射频驱动器产品规格书 RD1003-080-24-050-SA



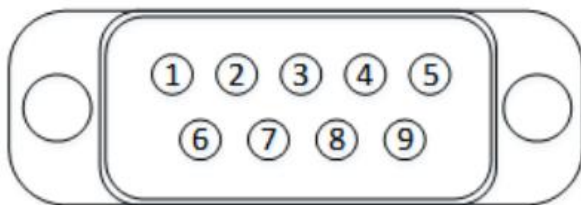
1. SPECIFICATIONS (规格)

RF frequency (射频频率)	80MHz
Frequency stability (频率稳定度)	$\pm 40\text{ppm}/^{\circ}\text{C}$
Output power (输出功率)	1-25W
VSWR (输出驻波比)	1.2/1
Linearity (线性度)	1.1/1
Digital Extinction ratio (数字消光比)	>45dB
Analog Extinction ratio (模拟消光比)	>45dB
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<0.8V, 3.3V<High<5V@1.5k Ω
Analog input (模拟输入)	0-5V@10k Ω
Second and multiple harmonics (二次及多次谐波)	<-25dBc
Output Impedance (输出阻抗)	50 Ω
Supply voltage (供电电压)	+24VDC $\pm 1\%$
Supply current (供电电流)	2A@25W
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)

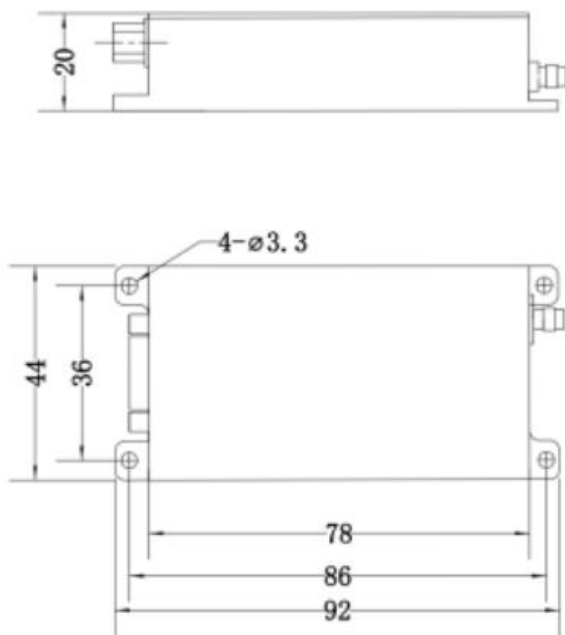
	C/F		Supply voltage		PWR		IC/work mode	
RD1001—	XXX	—	XXX	—	XXX	—	XX	
27.12 MHz	027		024	24 V	050	50 W	SA	散热片冷却, A05模式;
40.68 MHz	041		048	48 V	100	100 W	CF	传导冷却, FPS模式;

3. Interface definition (接口定义)

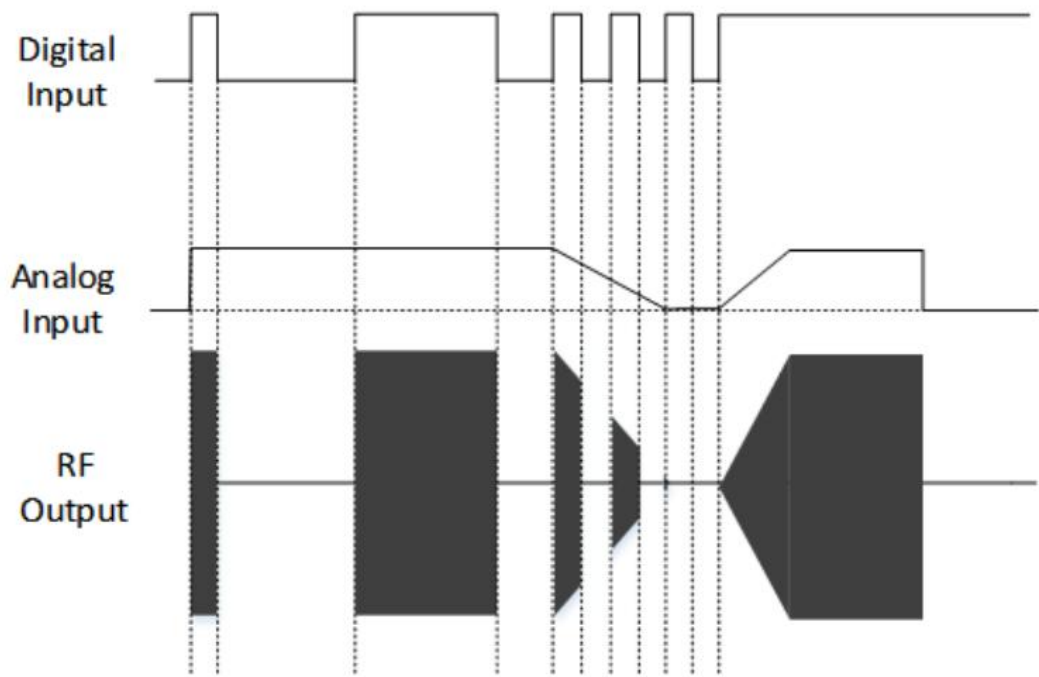


名称	引脚	功能
FPS	2	首脉冲抑制控制
Digital	5	外部数字信号控制 (3.3-5V)
Analog	6	外部模拟信号控制 (0-5V)
GND	4	地
+24V	9	供电
NC	1, 3, 7, 8	/

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)

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.