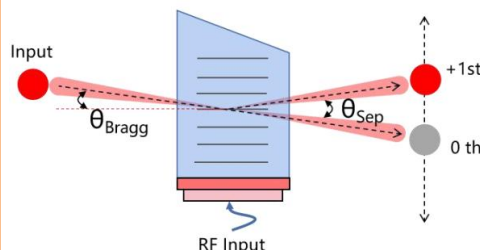


RF Driver Specifications 射频驱动器产品规格书 RD1001-041-24-100-WA



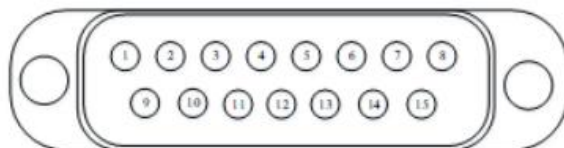
1. SPECIFICATIONS (规格)

RF frequency (频率频率)	40.68MHz
Frequency stability (频率稳定度)	$\pm 40\text{ppm}/^\circ\text{C}$
Output power (输出功率)	1-100W
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%)	90-150ns
Trigger frequency (触发频率)	DC-1MHz
Trigger delay (触发延迟)	$110 \pm 10\text{ns}$
Logic (逻辑)	TTL_HIGH=RF_OUTPUT
Digital input (数字输入)	Low $< 0.8\text{V}$, 3.3V $< \text{High} < 5\text{V}$ @ 1.5k Ω
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)	10A @ 100W
Cooling (散热方式)	Water-cooled (水冷散热)
Temperature Range (温度范围)	10-50 $^\circ\text{C}$ 环境温度

2. ORDERING CODES (编码规则)

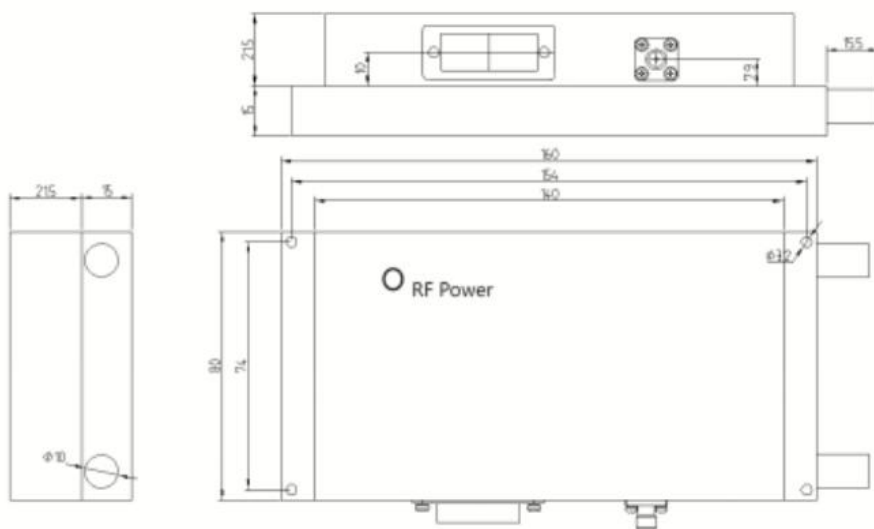
	C/F		Supply voltage		PWR		IC/work mode	
RD1001—	XXX	—	XXX	—	XXX	—	XX	
27.12 MHz	027		024	24 V	050	50 W	SA	散热片冷却, A05模式;
40.68 MHz	041		048	48 V	100	100 W	CF	传导冷却, FPS模式;

3. Interface definition (接口定义)

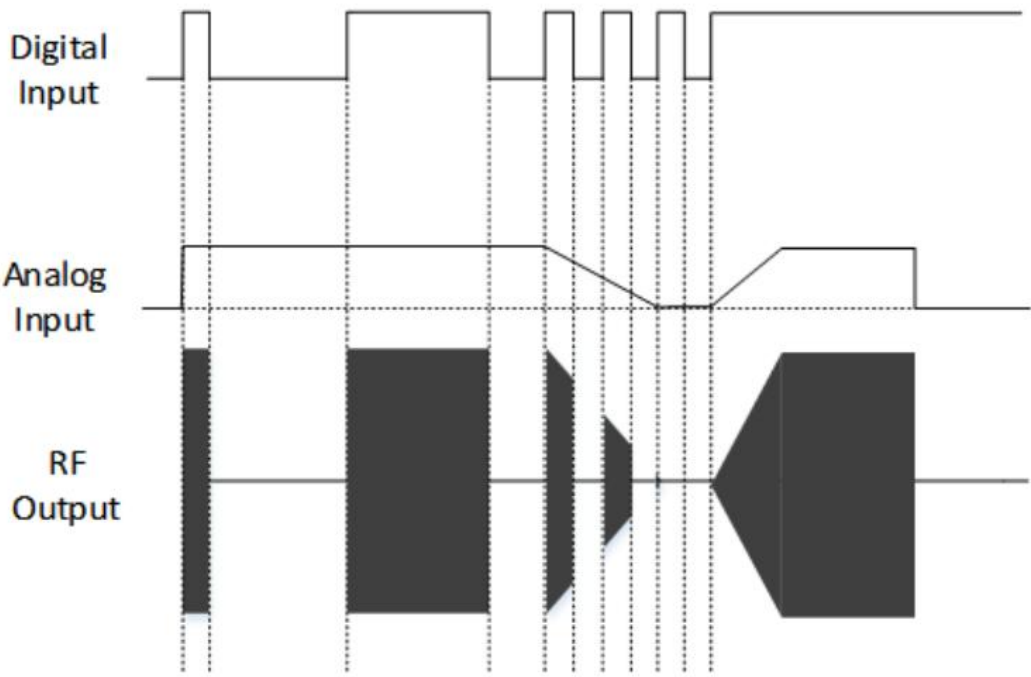


名称	引脚	功能
Digital	5	外部数字信号控制 (3.3-5V)
Analog	6	外部模拟信号控制 (0-5V)
Alarm	7	驱动模块过温警报 (高于80° 连续波, 脉冲波; 正常时低电平<0.3V; 报警时高电平>4.8V)
Alarm	9	空载报警 (连续波, 脉冲波; 正常时低电平<0.3V; 报警时高电平>4.8V)
GND	4	地
+24V	12	供电
NC	1, 2, 3, 8, 10, 11	/

4. DIMENSIONS (外形尺寸-mm)



5. Control Logic (控制逻辑)



6. SUGGESTED AO Device (建议声光器件型号)

M0022-GL041-080-9600

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.