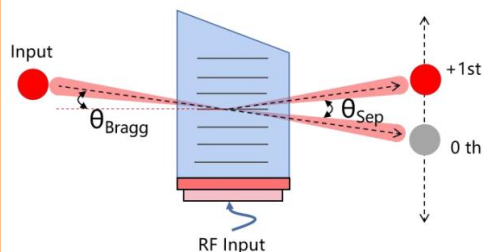


RF Driver Specifications 射频驱动器产品规格书 RD1073-080-24-025-CZ



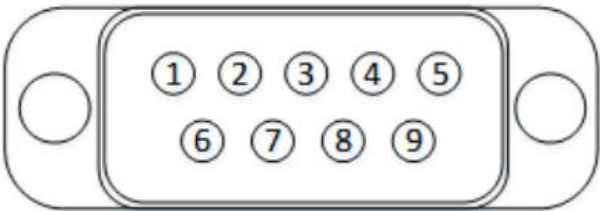
1. SPECIFICATIONS (规格)

RF frequency (频率频率)	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)	1.3/1
Linearity (线性度)	1.1/1
Digital Extinction ratio (数字消光比)	$> 45\text{dB}$
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)	$3.3\text{V} < \text{High} < 5\text{V}@1.5\text{k}\Omega$
Second and multiple harmonics (二次及多次谐波)	$< -25\text{dBc}$
Output Impedance (输出阻抗)	50Ω
Supply voltage (供电电压)	$+24\text{VDC} \pm 1\%$
Supply current (供电电流)	$2\text{A}@25\text{W}$
Cooling (散热方式)	Conduction cooling (传导冷却)
Operating temperature (工作温度)	$10-50^{\circ}\text{C}$
Storage temperature (存放温度)	$-20-70^{\circ}\text{C}$

2. ORDERING CODES (编码规则)

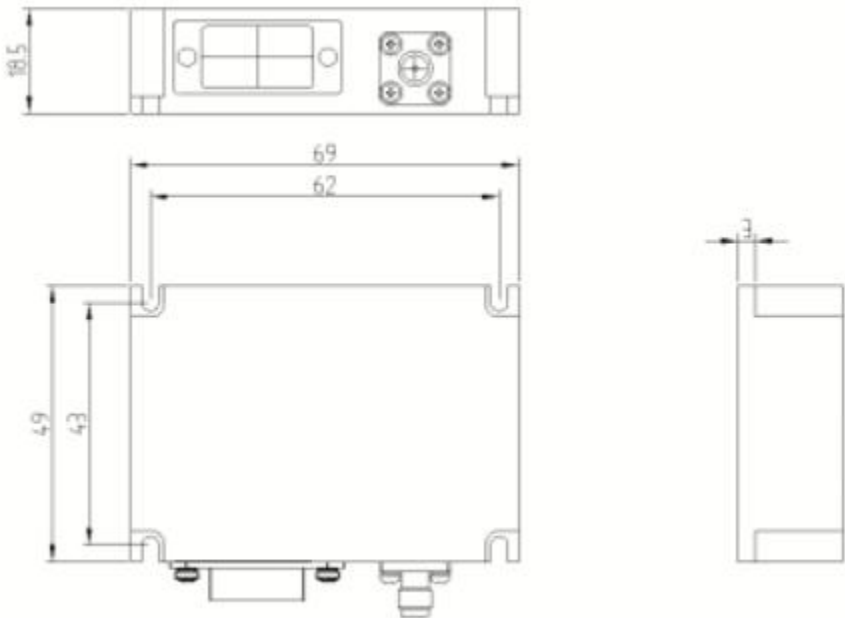
	C/F	Supply voltage	PWR	IC/work mode	
RD1001—	XXX	— XXX —	XXX	— XX	
27.12 MHz	027	024 24 V	050 50 W	SA	散热片冷却, A05模式;
40.68 MHz	041	048 48 V	100 100 W	CF	传导冷却, FPS模式;

3. Interface difinition (接口定义)

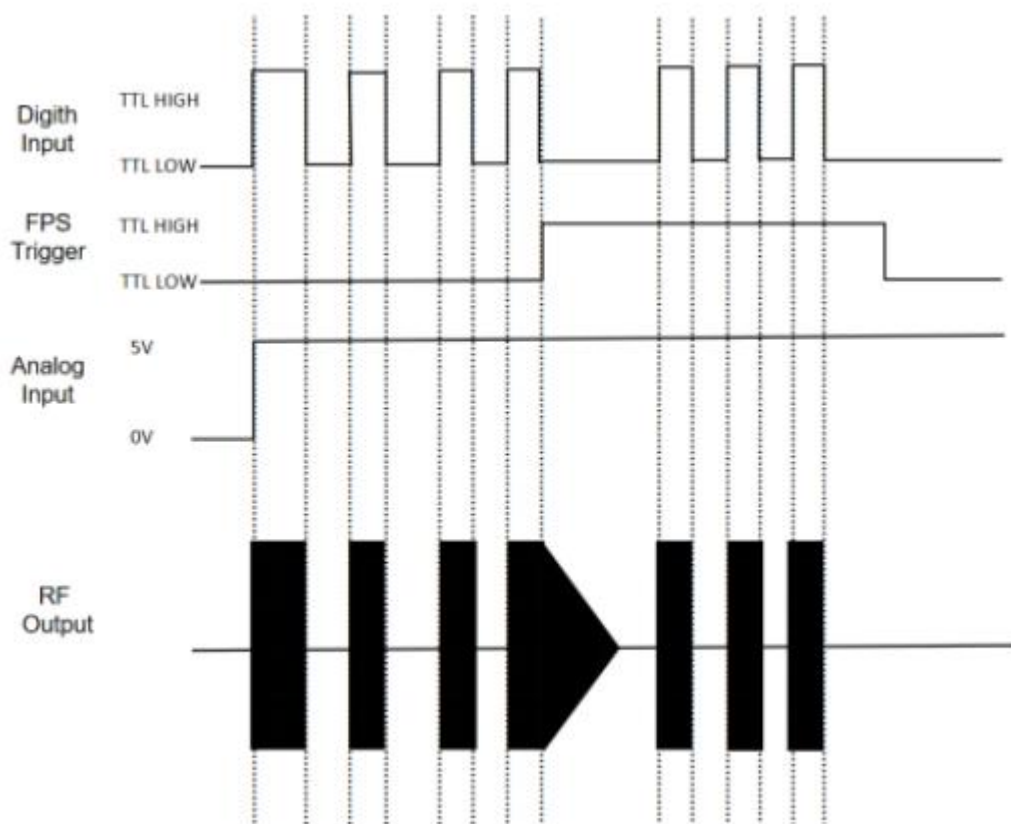
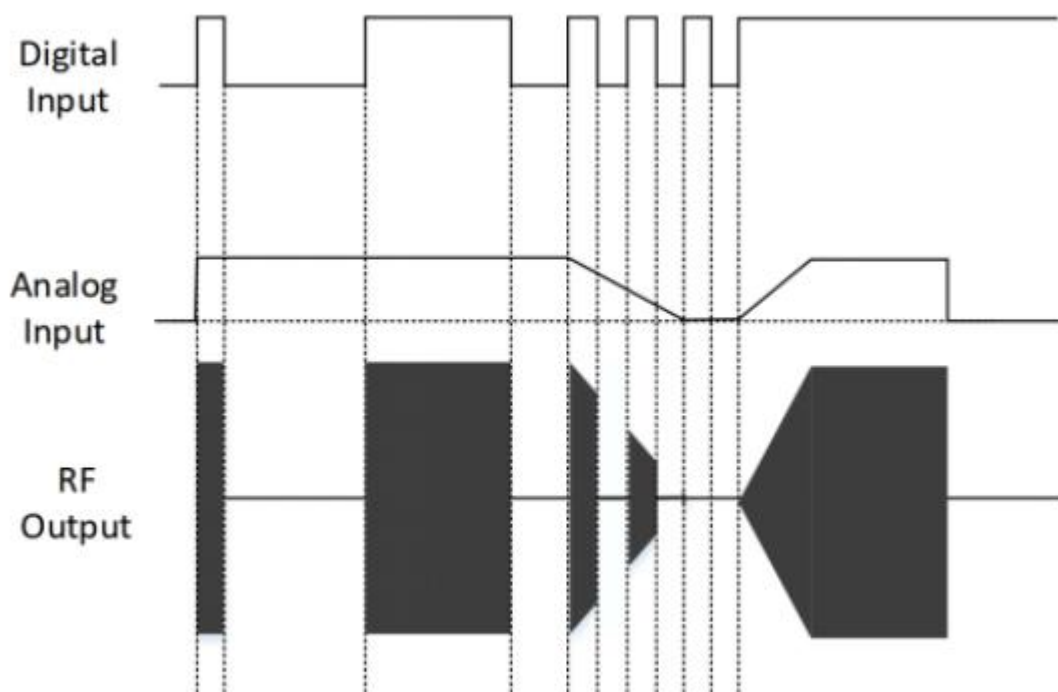


名称	引脚	功能
FPS	2	首脉冲抑制控制
GND	4	地
Digital	5	外部数字信号控制 (3. 3-5V)
Analog	6	外部模拟信号控制 (0-1V)
+24V	9	供电
NC	1, 3, 7, 8	/

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. 10. 4	New	/

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