

RF Driver Specifications
射频驱动器产品规格书
RD1056-080-24-003-CA



1. SPECIFICATIONS (规格)

RF frequency (射频频率)	80MHz
Frequency stability (频率稳定度)	$\pm 20\text{ppm}/^{\circ}\text{C}$
Output power (输出功率)	3W
VSWR (输出驻波比)	1.1/1
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) (0%-100%)	40ns
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)	$\text{Low} < 0.8\text{V}, 3.3\text{V} < \text{High} < 5\text{V}@50\Omega$
Analog input (模拟输入)	$0-5\text{V}@1\text{k}\Omega$
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)	$+24\text{VDC} \pm 1\%$
Cooling (散热方式)	Conduction cooling (传导冷却)
Temperature Range (温度范围)	$0-50^{\circ}\text{C}$ 环境温度

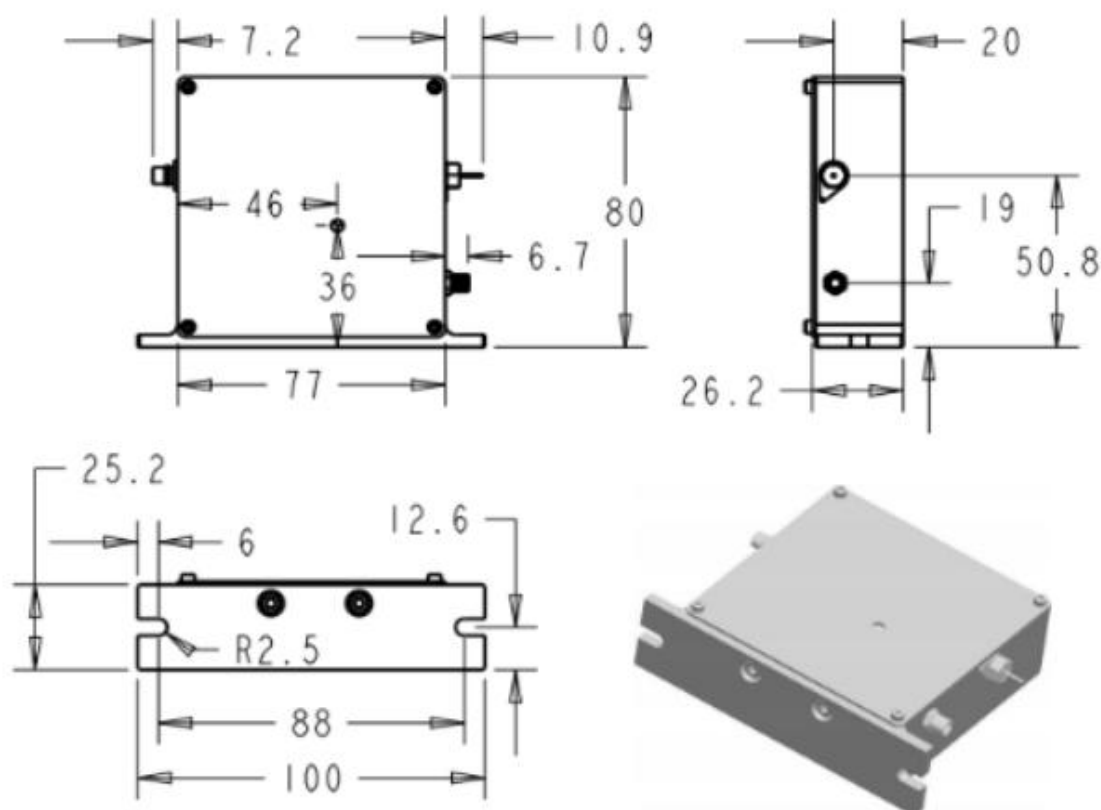
2. ORDERING CODES (编码规则)

	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; 传导冷却, FPS模式;
40.68 MHz	041	048 48 V	100 100 W	CF	

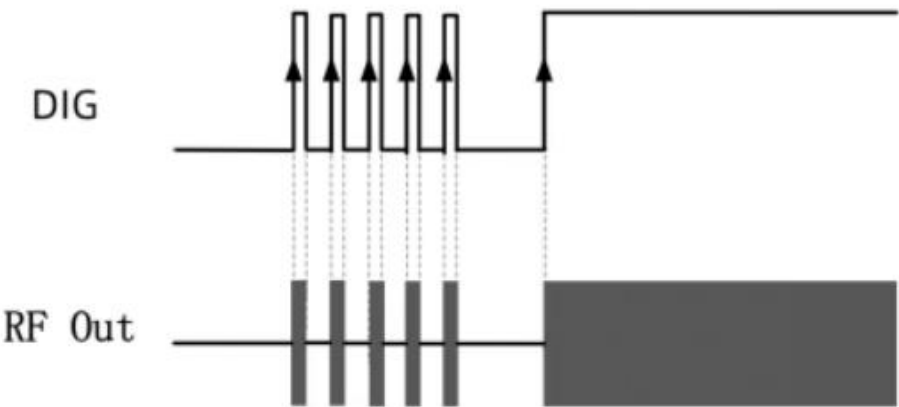
3. Interface definition (接口定义)

名称	引脚	功能
Digital	SMC-M	外部数字信号控制 (3.3V-5V)
+24V	Feedthrough Capacitor	电源供电
RF OUT	SMA-F	射频输出

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)

FM0013-TL080-P01-1550

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. 13	New	/

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