

RF Driver Specifications  
射频驱动器产品规格书  
RD1057-200-24-003-CA



1. SPECIFICATIONS (规格)

|                                                |                                                                     |
|------------------------------------------------|---------------------------------------------------------------------|
| RF frequency (射频频率)                            | 200MHz                                                              |
| 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)                           | Low $<0.8\text{V}$ , 3.3V $<\text{High}<5\text{V}@10\text{K}\Omega$ |
| Second and multiple harmonics (二次及多次谐波)        | $<-25\text{dBc}$                                                    |
| Output Impedance (输出阻抗)                        | $50\Omega$                                                          |
| Supply voltage (供电电压)                          | $+24\text{VDC} \pm 1\%$                                             |
| Supply current (供电电流)                          | 0.8A@3W                                                             |
| 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                                        |

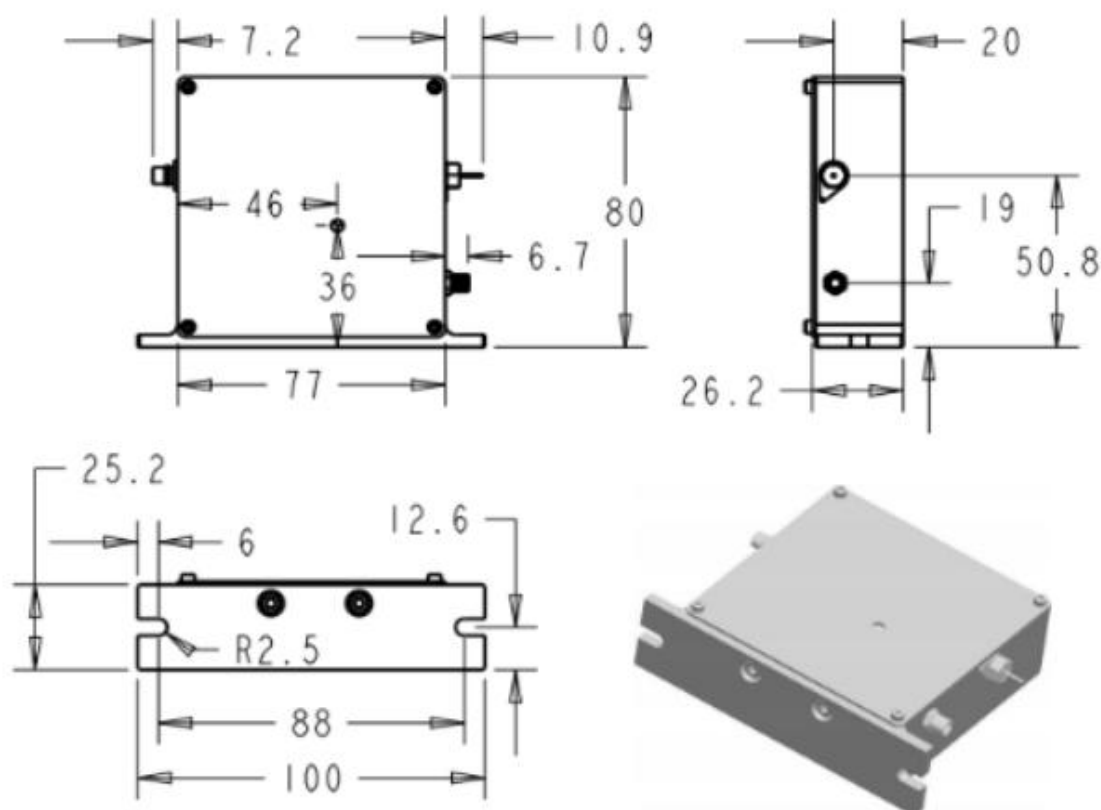
2. ORDERING CODES (编码规则)

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

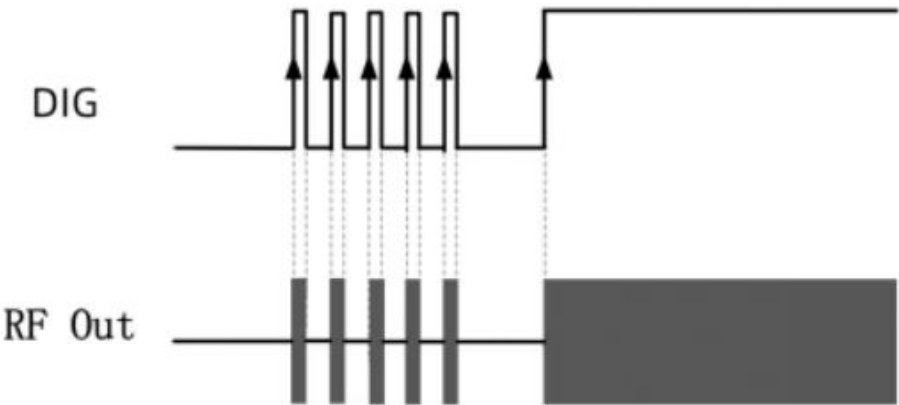
### 3. Interface difinition (接口定义)

| 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)

FM0005-TL200-P02-1064

7. REVISION (版本)

| Number<br>(版本号) | Revisions date<br>(修订日期) | Revision<br>(修改项目) | Revision description<br>(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.