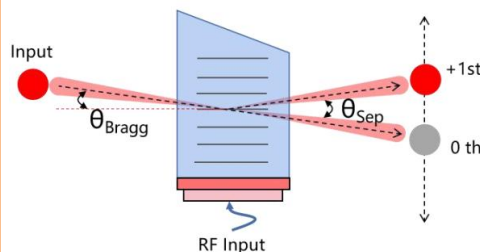


RF Driver Specifications 射频驱动器产品规格书 RD1004-068-24-025-CZ



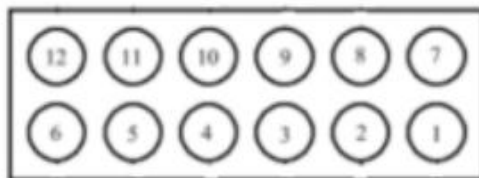
1. SPECIFICATIONS (规格)

RF frequency (射频频率)	68 MHz
Frequency stability (频率稳定度)	$\pm 40\text{ppm}/^\circ\text{C}$
Output power (输出功率)	25W
VSWR (输出驻波比)	1.2/1
Linearity (线性度)	1.1/1
Extinction ratio (消光比)	$> 45\text{dB}$
Rise time (上升时间) (10%-90%)	20-50ns
Fall time (下降时间) (90%-10%)	20-50ns
Trigger frequency (触发频率)	1MHz
Trigger delay (触发延迟)	50ns
Second and multiple harmonics (二次及多次谐波)	-25dBc
Output Impedance (输出阻抗)	50 Ω
DC Power Input (直流电源输入)	+24VDC
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)

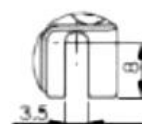
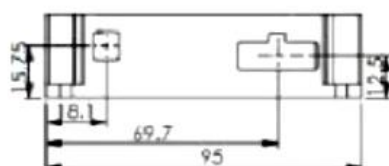
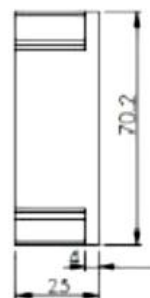
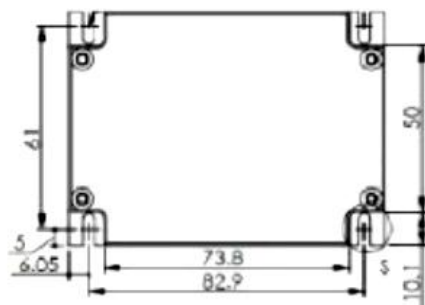
	C/F		Supply voltage		PWR		IC/work mode	
RD1001—	XXX	—	XXX	—	XXX	—	XX	
27.12 MHz	027		024	24 V	050	50 W	SA	散热片冷却, A05模式;
40.68 MHz	041		048	48 V	100	100 W	CF	传导冷却, FPS模式;

3. Interface definition (接口定义)



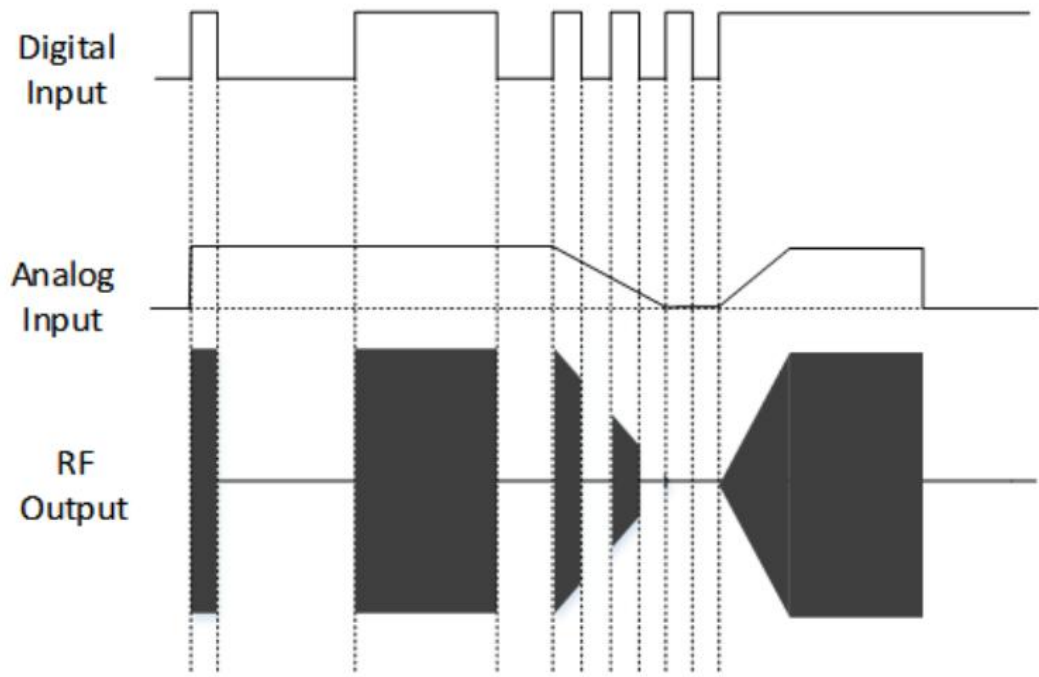
引脚		I/O	功能
名称	NO.		
信号同步	1	I	可变脉宽信号同步输出
FPS	2	I	首脉冲抑制控制/FPS control
NC	3	I	NC
GND	4	—	地
Digital	5	I	可变脉宽调制输入
Analog	6	I	0-5V的模拟电压，连续控制射频输出功率大小（0V时，消光比>45dB）
NC	7	I	NC
LP	8	I	低功率报警（<10W，输出高电平5V）
HP	9	I	高功率报警（>40W，输出高电平5V）
VSWR	10	I	空载报警（输出高电平5V）
使能	11	I	使能控制（空载开启射频输出，接5V关断射频输出）
+24V 电源	12	I	电源/Power

4. DIMENSIONS (外形尺寸-mm)



局部视图 S
比例 4:3

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	2023. 10. 24	New	/

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