

NOTES:UNLESS OTHERWISE SPECIFIED
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REVISION HISTORY					
ZONE	REV	DESCRIPTION	E.C.O.NO	DATE	APPROVED
	1	ENGINEERING RELEASE			

LAP-8002

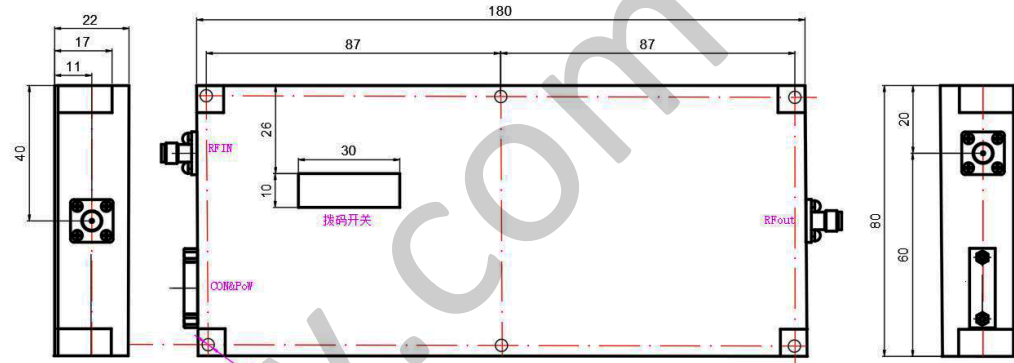
1560 – 1620 MHz 功率放大器 Power Amplifier

—电气技术参数 Electrical Specifications—

频率范围 Frequency Range:	1560 – 1620 MHz
输入功率 Input Power:	-14dBm
增益 Gain:	60±1dB
增益平坦度 Gain Flatness:	≤±0.5dB
输出功率 Output Power (Pave):	≥46dBm
峰均比 PAPR:	优于6dB
矢量幅度误差 EVM:	≤5%@P0:46dBm
输出谐波抑制 Output Harmonic Suppression:	≤-30dBc
输出杂散抑制 Output Spur Suppression:	≤-65dBc
最大输入功率 Maximum Input Power:	10dBm
输入/输出驻波 I/O VSWR:	≤1.5
直流偏置电压 DC Power Supply:	+28V
直流偏置电流 DC Current Supply:	≤7A@P0:46dBm
工作温度 Operation Temperature:	-40~+70 C
存储温度 Storage Temperature:	-40~+85 C

—机械技术参数 Mechanical Specifications—

输入连接器 Input Interface:	SMA-50KF
输出连接器 Output Interface:	SMA-50KF
电源及控制接口 Power&Control Interface:	DB9-F
尺寸 Size (excluding connectors):	≤180x80x22 mm
重量 Weight:	≤700g



组成:

该功放主要由数控衰减器、温补电路、推动放大单元、功率放大单元、定向耦合及检波比较电路组成。整机提供正压: +28V、模块内部具有过温保护、过流保护、大驻波保护等设计。

标准:

- GJB360A-1996 《电子及电气元件实验方法》
- GJB367A-2001 《军用通信设备通用规范》
- SJ20527-2003 《微波组件通用规范》

Control & PIN Definition:

PIN	Definition	Description
1/2/3	+28V	/
4/5/6	GND	/
7	ON/OFF	电源开关信号, TTL=H@功放打开, TTL=L@功放关断, 默认状态: L, 响应时间≤5us
8	PD	自检信号指示,TTL=L@工作正常; 当有过压、过流、过温等异常输出高电平并关断功放
9	S1	工作状态指示, TTL=H@工作正常

增益调节功能: 5 位拨码开关。衰减步进: 1dB; 衰减范围 0~31dB

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE MILLIMETER TOLERANCES ARE: DECIMALS ANGLES FRACTIONS .XX±0.03 ±1' ±2/5 .XXX±0.012		 www.lairmw.com sales@lairmw.com	P/N: LAP-8002																																						
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