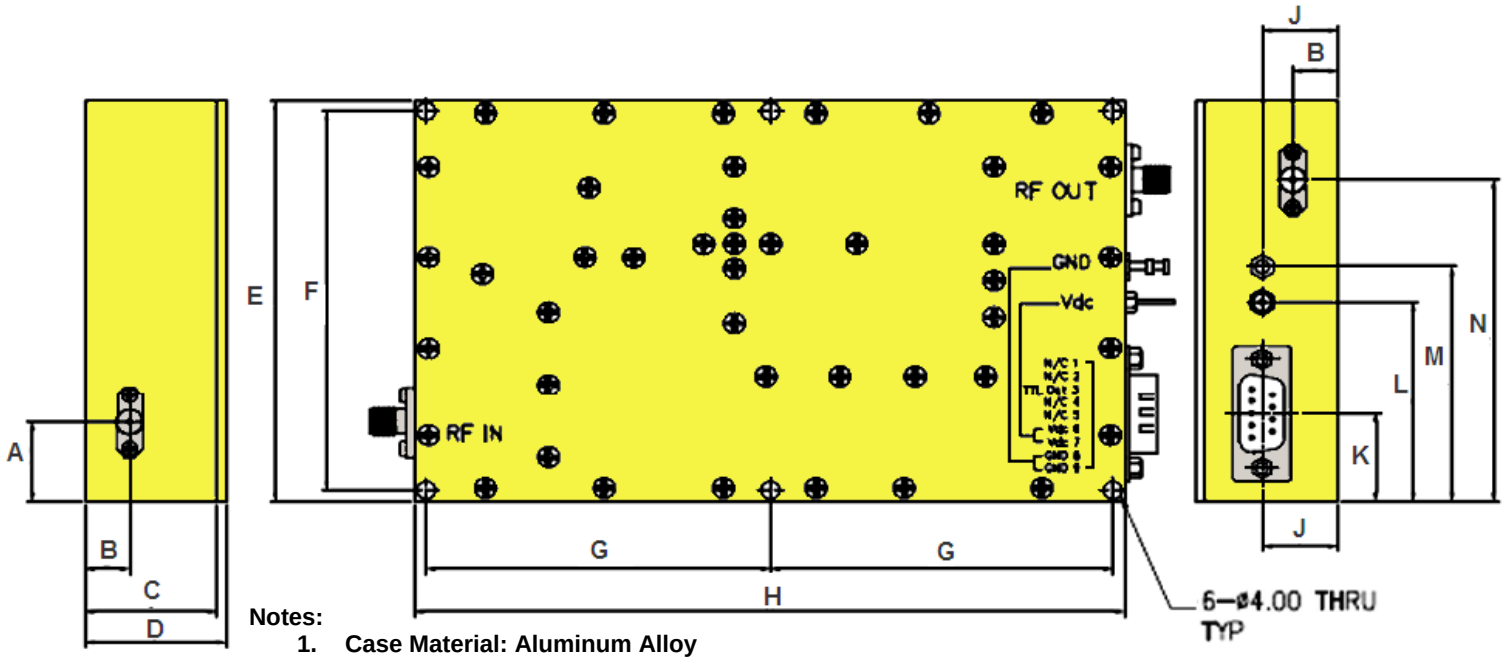
Medium Power Amplifier, 1.8-4.0 GHz

45dB RF Gain, SMA Female Connectors, 10 Watts



Notes:

1. **Case Material: Aluminum Alloy**
2. **Surface Plating: RoHS Application**

Dimensions:

Unit	A	B	C	D	E	F	G	H	J	K	L	M	N
mm	18.0	9.5	28.00	30.0	91.00	86.00	73.00	151.00	16.0	20.0	45.4	53.4	73.0

Order Examples: **RAMP-1.8-4.0-45d-Sf-10W-k2**

Description: (Medium Power Amplifier, 1.8-4.0GHz, 45dB RF Gain, SMA Female Connectors, 10 Watts)

I/O Signal Connector Pin Descriptions:

Pin No.	Description	I/O	Specifications	
1	VSWR Alarm	O	@S22>3:1 or Output port open Output>34dBm/CW	TTL=HIGH
2	N.C		Reserved	
3	Shutdown	O	Amplifier Enable: TTL “Low” (Logic 0) or Open Amplifier Disable: TTL “High” (Logic 1)	
4	N.C		Reserved	
5	N.C		Reserved	
6	+VDD	I	+28V	
7	+VDD	I	+28V	
8	GND	-	Ground	
9	Mute	-	Low PA is “on” Hi PA is “OFF”	

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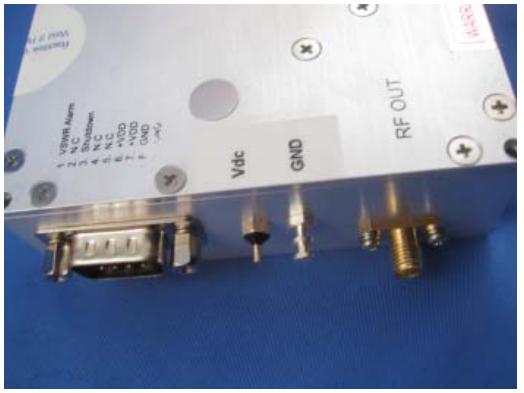
Specifications			Units
Frequency	1.8-4.0		GHz
Pout 1dB Compression (Min)	40		dBm
Pout 3dB Compression (Min)	41		dBm
2Tone 3rd Order Intercept Point (@ Pout =33dBm) (Min)	42	@ +28V @ -20 ~ +60°C	dBm
RF Gain (Min)	45		dB
Noise Figure (Max)	10		dB
Normal Operating Voltage	+28		V
Gain Flatness	+2.0 Over operating frequency		dB
Input Return Loss (Min)	-10		dB.
Output Return Power	When Output reflective power > 34 the power shuts off		dBm
Current Consumption	4 max. @+28V, +25°C, Po=+40dBm		A
	1 max. @ 'DISABLE' state		
Operating Temperature	-20 to +70		°C
Storage Temperature	-40 to +85		°C
Relative Humidity	90 RH		%
RF Connectors	Input: SMA Female, Output: SMA Female		
Dimension	151 x 91 x 30 (W x D x H) To be matched to RF Hitech PA		mm

10W HPA TEST DATA (Typical)		
Specifications		Test Results
Parameters	Standard	
Frequency	1800~4000MHz	
Gain	45dB±2dB	46.7dB
Gain Flatness	<4dB PN-PK	3.6dB
Max Output Power	40dBm Min	42dBm
Input Return Loss	Max -10dB	-12dB
Noise Figure	10dB Max	9dB
Current	4A@28V, 10W operational	1.8A
RF Connectors	SMA Female (In and Out)	



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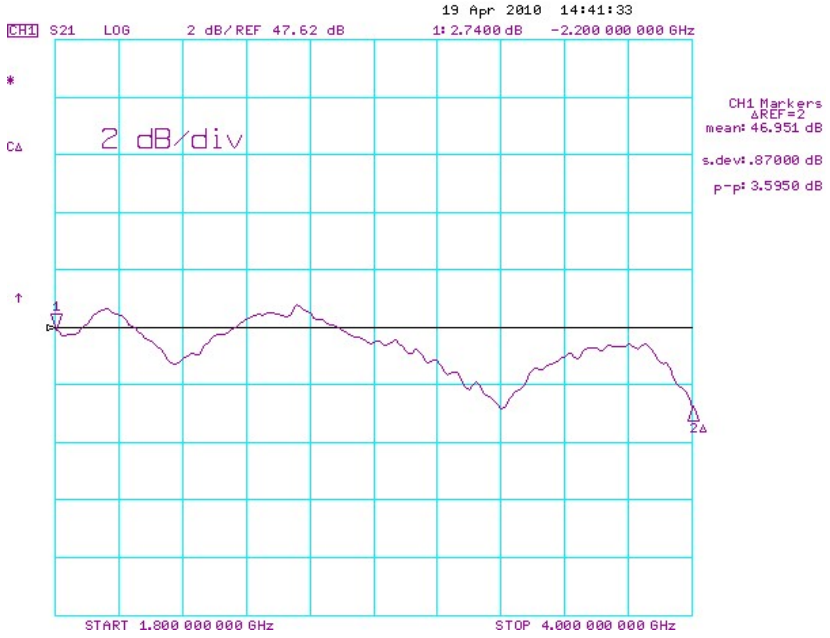
Gain& Gain Flatness



Input Return Loss

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