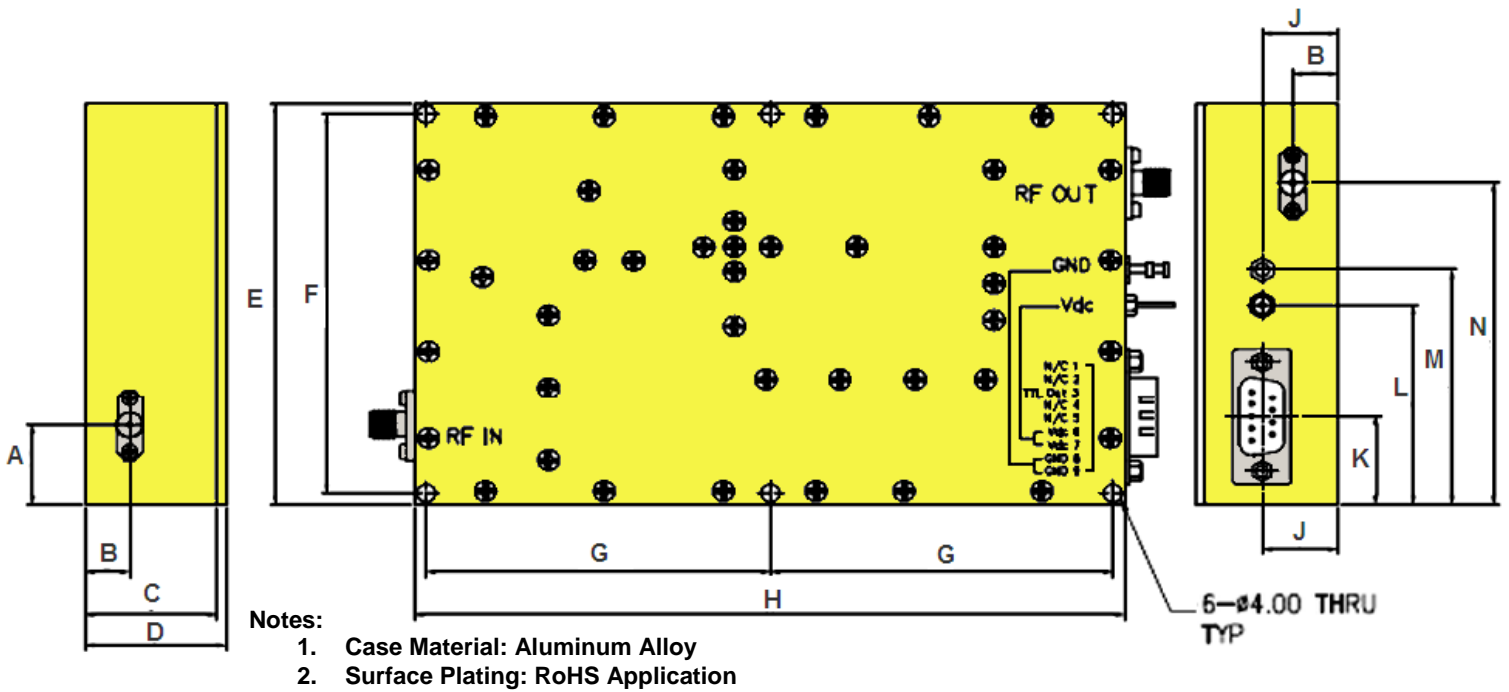


High Power Amplifier, 1.5-4.0 GHz, Full or Split Bands 45dB RF Gain, SMA Female Connectors, 10 Watts



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-1.5-4.0-45d-Sf-10W-k2

Description: (High Power Amplifier, 1.5-4.0GHz, 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
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	GND	-	Ground

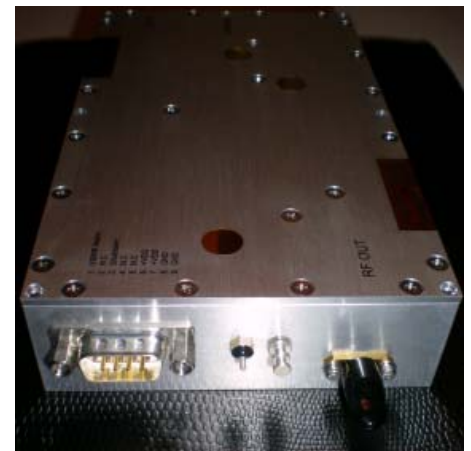


High Power Amplifier, 1.5-4.0 GHz, Full or Split Bands 45dB RF Gain, SMA Female Connectors, 10 Watts

Specifications			Units
Frequency	1.5-4.0	1.8-4.0	GHz
Pout 1dB Compression	40	40	dBm (Max)
Pout 3dB Compression	41	41	dBm (Max)
2Tone 3 rd Order Intercept Point @ +28V, @ -20 ~ +60°C, @ Po=+33dBm max.	42	42	dBm (Min)
RF Gain	45	45	dB
Noise Figure	10	10	dBm (Max)
Normal Operating Voltage	+28	+28	V
Gain Flatness	Peak to peak 4.0 dB Over operating frequency	Peak to peak 4.0 dB Over operating frequency	
Input Return Loss	-10	-10	dB min.
Output Return Power	When Output reflective power > 34 dBm the power shuts off	When Output reflective power > 34 dBm the power shuts off	
Current Consumption	4A max. @+28V, +25°C, Po=+40dBm	4A max. @+28V, +25°C, Po=+40dBm	
	1A max. @ 'DISABLE' state	1A max. @ 'DISABLE' state	
Operating Temperature	-20 to +70	-20 to +70	°C
Storage Temperature	-40 to +85	-40 to +85	°C
Relative Humidity	90% RH	90% RH	
RF Connectors	Input: SMA Female, Output: SMA Female	Input: SMA Female, Output: SMA Female	
Dimension	151 x 91 x 30 (W x D x H) To be matched to RF Hitech PA	151 x 91 x 30 (W x D x H) To be matched to RF Hitech PA	mm

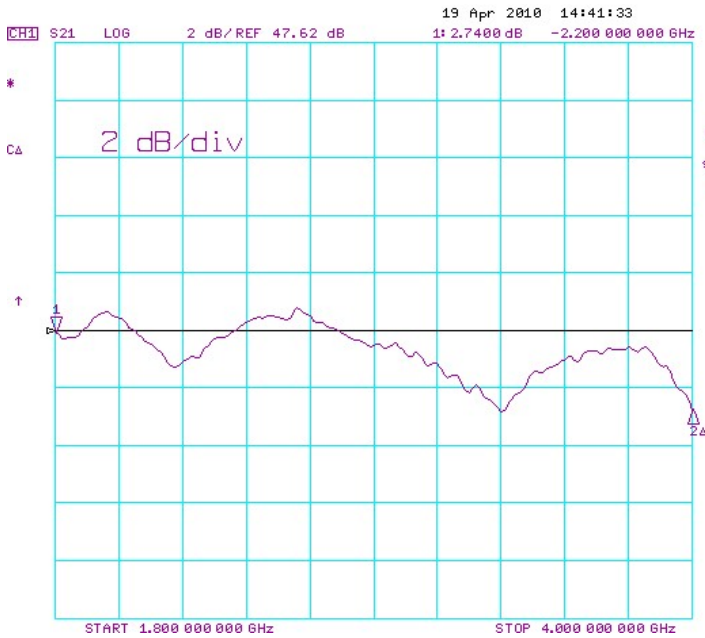
1.8-4.0GHz 10W HPA TEST DATA (Typical)

Specifications		Test Results
Parameters	Standard	
Frequency	1800~4000MHz	
Gain	45dB±2dB	46.7dB
Gain Flatness	<4dB	3.6dB
Max Output Power	40dBm	42dBm
Input Return Loss	Min -10dB	-12dB
Noise Figure	10dB	9dB
Current	4A@28V, 10W operational	1.8A
RF Connector	SMA Female	



High Power Amplifier, 1.5-4.0 GHz, Full or Split Bands 45dB RF Gain, SMA Female Connectors, 10 Watts

Gain & Gain Flatness



Input Return Loss

