

Solid State Power Amplifier 6.0-18.0GHz 44 dB gain SMAf to TNCf Connectors 50Watts Power



Features

- Ultra Wideband Operation
- High Efficiency
- Full Power across the Entire Bandwidth
- Rugged and Reliable
- Low Harmonic Distortion
- Compact and Lightweight
- GaN Technology

Order Examples: RAMP-6.0-18.0-44d-SMAf-TNCf-50W-c20

Description: (Solid State Power Amplifier, 6-18GHz, 44 dB gain SMAf to TNCf Connectors 50Watts Power)

Specifications:

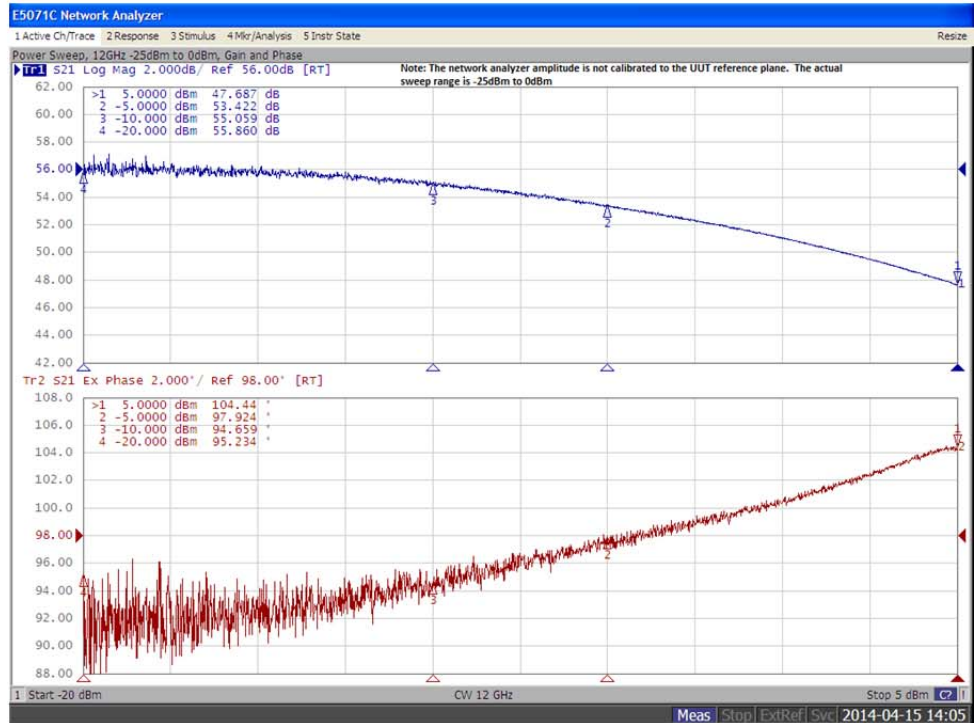
	4-11 GHz	6-18 GHz
Frequency Range	4-11 GHz	6-18 GHz
RF Power Output (P3dB)	>30 Watts Typical	>50 Watts Typical
Gain @ 50 watts	>41 dB Typical	>44 dB Typical
RF input Overdrive	+10 dBm Max	+10 dBm Max
Gain Flatness @ 50W (50Ω)	±6dB Typical	±6dB Typical
Class of Operation	AB Linear	AB Linear
Input VSWR	2.0:1 Maximum	2.0:1 Maximum
Output Load VSWR	2.0:1 Full Power	2.0:1 Full Power
Harmonics	2fo	<-15dBc
	3fo	<-25dBc
Spurious	<-60 dBc	<-60 dBc
Stability	Open/Short Tested	Open/Short Tested
Built in Test	Composite Fault Indication	Composite Fault Indication
	Over Current Fault	Over Current Fault
	Over Temperature Fault	Over Temperature Fault
DC/Control Interface	7-pin Combo D	7-pin Combo D
PA Enable/Disable:	5.0V TTL (<5μS)	5.0V TTL (<5μS)
DC Input	+28Vdc ±2V	+28Vdc ±2V
DC Power @ Standby	<15W	<15W
Efficiency (DC to RF)	13% Typical	13% Typical
RF Connectors:		
RF Input	SMA Female field replaceable	SMA Female field replaceable
RF Output	TNC Female field replaceable	TNC Female field replaceable
Operating Temperature:	-40 to +55°C baseplate(external heatsink required)	-40 to +55°C baseplate(external heatsink required)
Environmental:	Shock/Vibration MIL-STD-810F	Shock/Vibration MIL-STD-810F
Size	6.13" x 3.50" x 1.5"	6.13" x 3.50" x 1.5"
Weight	3 lbs.	3 lbs.
Noise Power Output:	-105dBm/Hz Typical	-105dBm/Hz Typical

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Group Delay
+30°C Baseplate



AM/AM and AM/PM, 12GHz
+30°C Baseplate

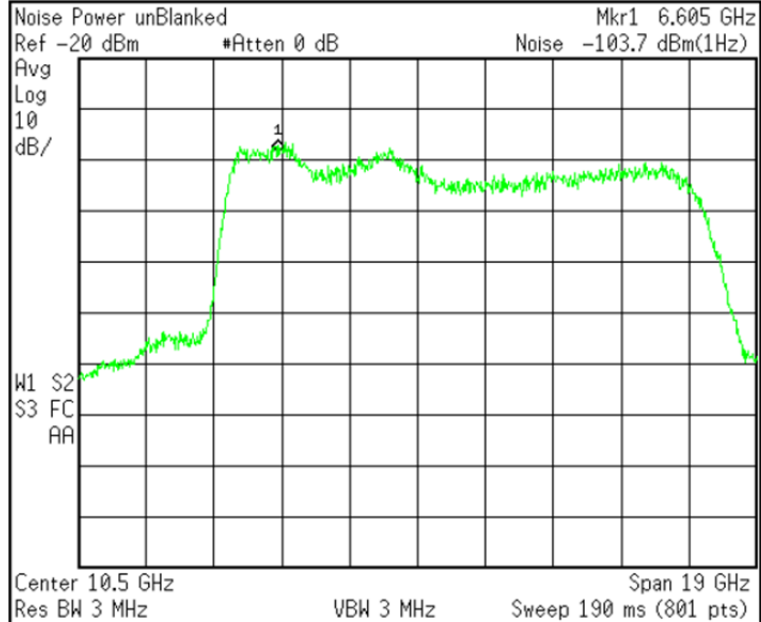


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Output Noise Power

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Peak Search

Meas Tools

Next Peak

Next Pk Right

Next Pk Left

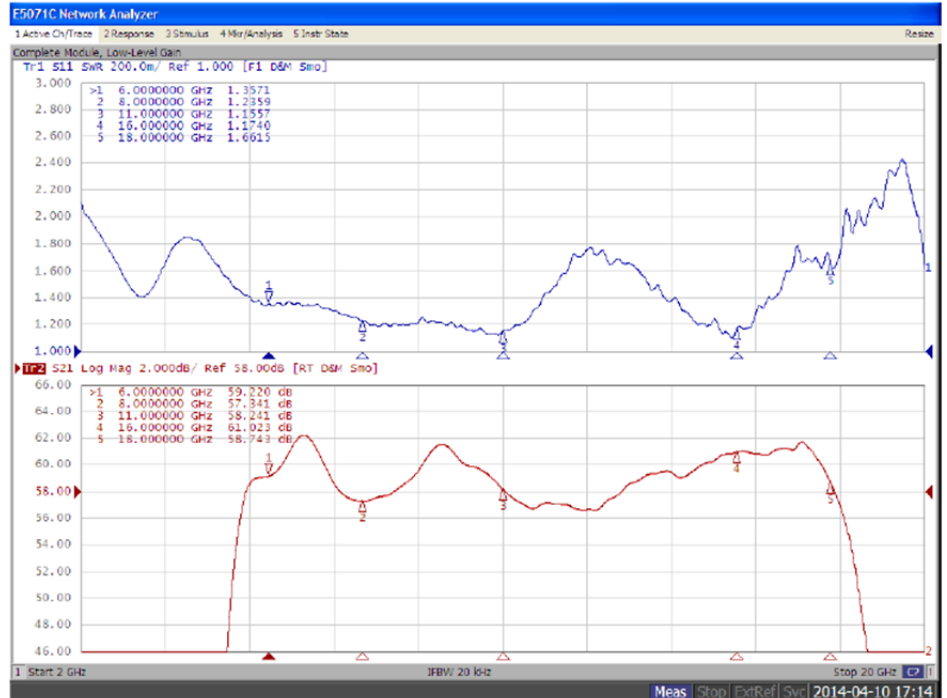
Min Search

Pk-Pk Search

More
1 of 2

Noise Figure			
5.5 - 18GHz 50W PA Module			
Freq (GHz)	Measured Noise (dBm/Hz)	Gain (dB)	Noise Figure (dB)
5.5	-104	58.8	11.2
6	-104	59.2	10.8
6.5	-103.7	62	8.3
8.5	-104.5	61.5	8
13	-110	57	7
18	-110	58.7	5.3

Low-Level gain



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Dimension

