

**Power Amplifier 100-500MHz 47 dB gain**  
**SMA female Connectors, 50Watts, Psat or P1dB**  
**MIL-Std 810 Environmental, M&C option**

HSF Amplifier with heat sink & fans



HSO Amplifier with heat sink without fans



**Class AB / LDMOS**

**Warranty**

**Order Examples: RAMP-M-100-500M-47d-28V-Sf-50W-P1-MIL-M&C-HSO-L21**

**Description:** (Power Amplifier Module, 100-500MHz, 47dB gain 28VDC SMA female Connector 50Watts, P1dB, MIL-Std 810 Environmental, Monitor and Control Heatsink included)

**Option** M&C (15 pins D SUB) Monitor and control (Forward power, Gain adjust, Current sense, Temp, and TTL shutdown) (25, 50Watts P1dB) (HSF)Heatsink and Fans, (HSO) Heatsink only

<b>Specification @ 25° C</b>	
Frequency Range	<b>100 – 500 MHz</b>
RF Output Power CW (Psat)	100 Watts
RF Output Power CW (P1dB)	50 Watts
Gain	+47 dB min
Gain Flatness	±2.0dB
Input/ output VSWR	2.0:1
Input / Output Impedance	50 Ohms
Power Supply Voltage	+28VDC
Supply Current Power	5 amps max at 50W RF O/P
Harmonics	-50 dBc
Spurious	-60 dBc
Control functions (15 Pins D Sub) (Monitor and Control Optional)	Forward power, Gain adjust, Current sense, Temp, and TTL shutdown
Class	AB / LDMOS
<b>Mechanical</b>	
Dimensions Amplifier alone	(W) 5.0" x (L) 8.0" x (H)1.5" Max
Dimensions Amplifier with heat sink(HS) & Fans(HSF) included*	(W) 7 "x (L) 11" x (H) 3.5"
Weight	1.8 Lbs.
Connectors	SMA Female
DC Interface	Solder lug
Operating Temp	-54 to +85°C
Humidity (cond)	MIL-Std 810
Shock & vibration	MIL-Std 810
Altitude	MIL-Std 810

Note: \* Dimension Amplifier (HS)with heat sink and with heatsink \$ Fan(HSF) are the same (W) 7 "x (L) 11" x (H) 3.5"

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SMA female Connectors, 50Watts, Psat or P1dB  
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<b>Specification @ 25° C</b>	
Frequency Range	<b>100 – 500 MHz</b>
RF Output Power CW (Psat)	50 Watts
RF Output Power CW (P1dB)	25 Watts
Gain	+47 dB min
Gain Flatness	±2.0dB
Input/ output VSWR	2.0:1
Input / Output Impedance	50 Ohms
Power Supply Voltage	+28VDC
Supply Current Power	5 amps max at 50W RF O/P
Harmonics	-50 dBc
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