Amplifier, RF, 0.8-4.2GHz, 46dB Gain
N-Type Female Connectors, 28 Watts, Ethernet Control Option

Amplifier with Ethernet Control

Features:
- 28 Watt broadband amplifier
- 0.8 – 4.2 GHz frequency range.
- Small and lightweight amplifier
- Utilizes Class A/AB linear power devices
- Provide an excellent 3rd order intercept point, high gain, and a wide dynamic range.
- High efficiency operation with proven reliability.
- Thermal Overload Protection
- Over Current Protection
- Ethernet Control Option

Order Examples: RAMP-0.8-4.2-46d-Nf-28W-ECO-o9
Description: (RF Amplifier, 0.8-4.2GHz, 46dB Gain, N-Female Connectors, 28 Watts, Ethernet Control Option)

	Parameter	Specifictions @ 25ºC
Electrical		
1	Frequency Range	0.8 – 4.2 GHz
2	Saturated Output Power	28 Watts typical
3	Power Output @ 1dB Comp.	22 Watts min
4	Small Signal Gain	+46 dB min
5	Small Signal Gain Flatness	+ 2.5 dB max
6	IP3	+54 dBm typical
7	Input VSWR	2:1 max
8	Harmonics -	20 dBc typical @ 22 Watts
9	Spurious Signals	< -60 dBc typical @ 22 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	350 Watts max
12	AC Input	100 – 240 VAC, single phase
13	RF Input	+10 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	A/AB
Mechanical		
16	Dimensions	19" x 3.5" x 20"
17	Weight	35 lb. max
18	Connectors	Type-N
19	Grounding Chassis	
20	Cooling	Internal Forced Air
Environmental		
21	Operating Temperature	0º C to +50º C
22	Operating Humidity	95% Non-condensing

RAMP-0.8-4.2-46d-Nf-28W-ECO-o9   *Specifications may be subject to change*   **06/17/11**

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Amplifier, RF, 0.8-4.2GHz, 46dB Gain
N-Type Female Connectors, 28 Watts, Ethernet Control Option

	Parameter	Specifictions @ 25ºC
23	Operating Altitude	Up to 10,000' Above Sea Level
24	Shock and Vibration	Normal Truck Transport
Connectors on front of unit		
25	N Female	

Front Panel Controller with Ethernet Option
Functions include (in an all-inclusive package):
• Standby mode and rear panel IEEE-488, RS-232 HPIB Interface
• Front panel digital display
• Forward and reverse power readings
• Gain adjustment
• ALC on/off
• Fault indication

Ethernet Option
- Includes amplifier + IEEE-488, RS-232 Interface and Ethernet
- Connectivity (must have IEEE-488 or RS-232 for Ethernet).
- The Ethernet Interface is an independent microprocessor-based embedded computer internal to the RF Amplifier that regularly polls the front-panel controller for information.
- That information is stored and served up to the user upon request, and incoming commands from the user are parsed and passed on to the front panel controller.
- Ethernet Interface can be reset independently via the rear-panel pushbutton without disrupting the operation of the RF Amplifier itself.
- The following amplifier functions are accessible via the Ethernet Interface:
    o Amplification Mode: Fixed Gain (VVA) or Automatic Level Control (ALC)
    o VVA and/or ALC Level Set
    o Output Mode: Online or Standby
    o Forward and Reverse/Reflected RF Output Power
    o VSWR Alarm Threshold
    o Faults: High Temperature, High VSWR, ALC Out-Of-Range

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