RF Power Amplifier

Model RF1340

Solid State - High Power - Broadband - 700MHz - 3000MHz



The RF1330 is a 120 Watt broadband amplifier that covers the 700 to 3000MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3rd order intercept point, high gain, and a wide dynamic range. This amplifier can be fitted with a front panel controller feature that adds many facilities and additional protections. See overleaf.

Due to robust engineering and employment of the most advanced devices and components, this amplifier achieves high efficiency operation with proven reliability.

Like all Laplace RF series amplifiers, the RF1330 comes with an extended multiyear warranty backed by commitment to total customer satisfaction.

Specifications @ 25°C

<u>Electrical</u>		
1	Frequency Range	700 – 3000MHz
2	Saturated Output Power	120 Watts Minimum
3	Power at P1dB	80W Min.
4	Small Signal Gain	+53 dB Minimum
5	Gain Flatness	+/- 1.5 dB Maximum
6	IP ₃	+56 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc min @ 80 Watts
9	Spurious Signals	< -60 dBc typical @ 80 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1,200 Watts Maximum
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm nominal
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	Class A
<u>Mechanical</u>		
16	Dimensions	483 x 134 x 660mm (19" x 5.25" x 26") 3RU
17	Weight	33 kg.
18	RF Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental Environ		
21	Operating Temperature	0° C to +50° C
22	Operating Humidity	95% Non-condensing
	Operating Altitude	To 10,000 ft

Laplace Instruments Ltd



Tudor House, Grammar School Road, North Walsham, Norfolk NR28 9JH

T: +44 (0) 16 92 40 20 70. E: tech@laplace.co.uk W: www.laplace.co.uk

FRONT PANEL CONTROLLER FEATURES

Forward Power Monitoring (dBm or Watts)

Reflected Power Monitoring (dBm or Watts)

Gain Control (20 dB dynamic range of adjustment)

Fault Status \(-Full Protection Of any VSWR Condition, Open or Short, into any Phase Angle

Remote Control Access via the Ethernet, RS-232, or IEEE-488 Communications ports Integrated Automatic Leveling Control to allow end-user to maintain output even with variances in temperature, or input RF level

Standby/Enable Control

Front Panel Display for easy viewing of System Status Locally

Keypad buttons for full local control

CIRCUIT PROTECTIONS

Thermal Overload

Over Current

Over Voltage

Open or Short VSWR Conditions (With Front Panel Controller)

CIRCUIT CONTROL (WITH FRONT PANEL CONTROLLER)

Standby (amplifier disable)

Gain/power setting with 20dB range

VSWR protection Rese

-ALC On/ Off

CIRCUIT INDICATIONS (WITH FRONT PANEL CONTROLLER)

Forward Power

Reflected power

VSWR Fault

Temp Fault

Gain Setting (VVA) percentage

RFPA SYSTEM OPTIONS

Switched Filter Bank

Input Power Requirements

Ruggedized Version

Cabinet Requirements

Outdoor Version

Sample Ports

Racking Options

Many More!

Ordering information:

RF1340F RF connections on front panel RF1340R RF connections on rear panel

RF1340FE RF connections on front panel with front panel control option.
RF1340RE RF connections on rear panel with front panel control option.



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