

RF Power Amplifier

Model RF1650

Solid State - High Power - Broadband - 0.7GHz – 6GHz

The RF1650 is a 50 Watt broadband amplifier that covers the 0.7 to 6GHz 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.

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 RF1650 comes with an extended multiyear warranty backed by commitment to total customer satisfaction.

Specifications @ 25°C

Electrical		
1	Frequency Range	0.7 – 6GHz
2	Saturated Output Power	50 Watts Minimum
3	Power at P1dB	30W Min.
4	Small Signal Gain	+48 dB Minimum
5	Gain Flatness	±5 dB Maximum
6	IP ₃	+52 dBm typical
7	Input VSWR	2:1 max
8	Harmonics	-20 dBc min @ 30 Watts
9	Spurious Signals	< -60 dBc typical @ 30 Watts
10	Input/Output Impedance	50 Ohms nominal
11	AC Input Power	1,000 Watts Maximum
12	AC Input	100 – 240 VAC, single phase
13	RF Input	0 dBm max
14	RF Input Signal Format	CW/AM/FM/PM/Pulse
15	Class of Operation	Class A
Mechanical		
16	Dimensions	19" x 5.25" x 21" 3RU
17	Weight	25 kg.
18	RF Connectors	Type-N
19	Grounding	Chassis
20	Cooling	Internal Forced Air
Environmental		
21	Operating Humidity	0° C to +50° C
22	Operating Altitude	95% Non-condensing
23	Shock and Vibration	Up to 10,000' Above Sea Level



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