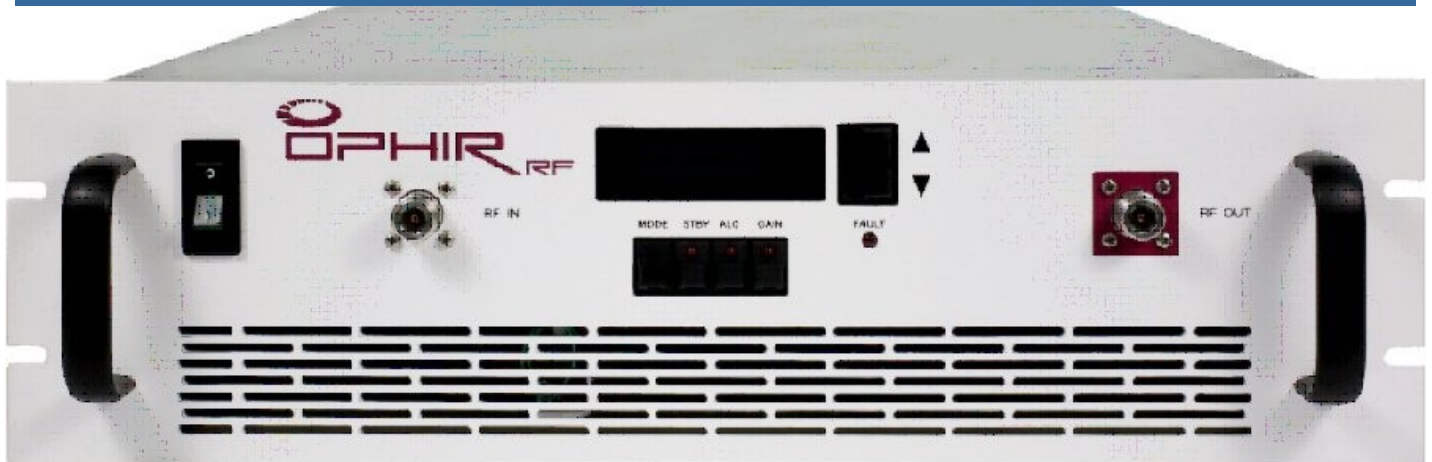


# Power Amplifier for IEC61000-4-3 testing

RF1660

A perfect match for the latest issue of radiated RF immunity tests



- Frequency range: 700MHz to 6GHz
- 100W PSAT, 60W P1dB
- Will deliver >20V/m at 3m via a typical LPDA
- >60V/m at 1m.
- High quality solid state design for exceptional reliability.
- Class A operation for low distortion, high quality output.
- Optional electronics for control/comms/display.
- 5 year warranty

## Efficient

One amplifier covers the entire 0.7—6GHz range

## Effective

Delivers 20V/m @ 3m via a typical LPDA or horn antenna

## Integration

Standard 0dBm input for maximum output.

## Enhancements

Optional controller and display feature for comms, VSWR protection and readout facilities.

The 1660 is a very high power broadband amplifier that covers the 700 – 6000 MHz frequency range. This amplifier utilizes Class A linear power devices that provide an excellent 3rd order intercept point, high gain, a wide dynamic range, and an industry leading P1dB performance.

LAPLACE INSTRUMENTS LTD



## High power RF amplifier for immunity testing to IEC61000-4-3

The latest version of this standard now requires testing to 6GHz. Stress levels depend on the product and environment in which it is to be used, but for commercial products, these do not exceed 20V/m. This RF1660 solid state amplifier provides a single unit solution to cover the whole range from 700MHz upwards, with output power capable of delivering the 20V/m at 3m via standard horn or LPDA antennas.

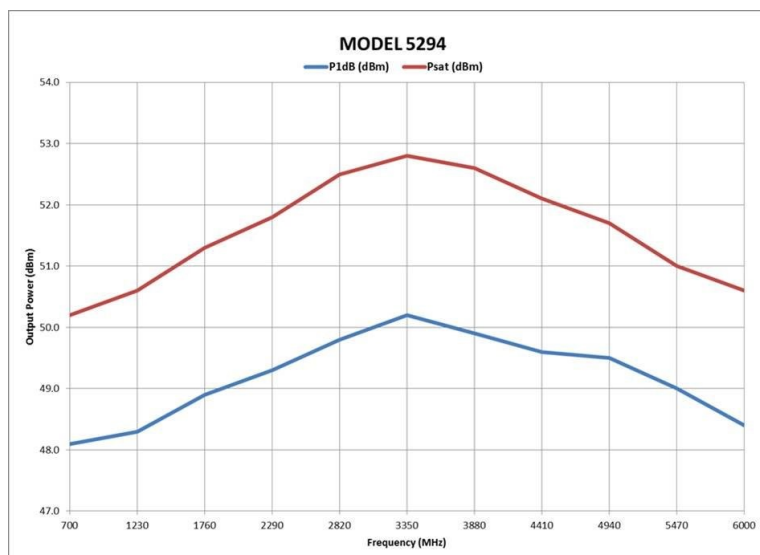
These amplifiers have an unrivalled reputation for build quality and reliability, and are shipped with a 5 year warranty.

### SPECIFICATION

Parameter	Specification @ 25 °C
Frequency range	7 to 6000MHz
Power @ P <sub>sat</sub>	100W minimum
Power @ P <sub>1dB</sub>	60W typical
Small signal gain	+53 dB minimum
Flatness (Pin:0dBm)	+/- 4.0dB maximum
IP <sub>3</sub>	+54dBm typical
Input VSWR	2:1 maximum
Harmonics	-20 dBc typical @ P <sub>1dB</sub>
Spurious signals	< -60 dBc typ. @ P <sub>1dB</sub>
In/Out impedance	50ohms
RF input	0dBm nominal +3dBm without damage
RF Input signal format	CW/AM/FM/PM/Pulse
Class of Operation	A

Parameter	Specification @ 25 °C
Dimensions	19" rack x 3u x 69cm
Weight	33kg
RF connectors	N type
Grounding	Chassis
Cooling	Internal forced air
Operating temperature	0°C to +50°C
Operating humidity	95% non-condensing
Operating Altitude	Up to 10,000' above sea level
Vibration	Normal truck transport
AC Input power	2,400W maximum
AC input	100 - 240V AC, 50/60Hz

Option E (Electronic controller installation) Functions	Readout or Display
Forward power monitoring	Yes
Reflected power monitoring	Yes
Gain control (25dB range)	Yes
Fault status	Yes
Full protection of any VSWR condition	
Remote control via Ethernet, RS232, IEEE	
Automatic ALC for output level	
Standby/Enable control	
Keypad for local control	
Thermal/over current/over voltage protection	Yes
Open or short circuit VSWR conditions	Yes



#### Ordering codes:

RF1660-R	Rear panel RF connectors
RF1660-F	Front panel RF connectors
RF1660-RE	Electronic controller fitted, rear panel RF connectors
RF1660-FE	Electronic controller fitted, front panel RF connectors

Available from

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