

Solid State RF Power Amplifiers

Specifications

Amplifier 1:

Frequency Range	: 1 GHz – 6 GHz
Power Output	: 30 Watts Minimum
Power Output @ 3 dB Compression	
Nominal	: 45 Watts
Minimum	: 35 Watts
Power Output @ 1 dB Compression	
Nominal	: 35 Watts
Minimum	: 25 Watts
Input For Rated Output	: 1 milliwatts, 0 dBm
Input Impedence	: 50 ohms
Input VSWR	: 1.5:1
Output Impedence	: 50 ohms
Gain	
Nominal	: 48 dB
Minimum	: 46 dB
Flatness	: ± 1.5 dB typical, ± 2.0 dB Maximum
Third Order Intercept	: 54 dBm typical
Noise Figure	: 10 dB typical
Harmonic Distortion	: -20 dbc max at 30 watts
Spurious	: -73 dBc
Mismatch Tolerance	: 100% of rated power without foldback
Modulation Capability	: Should faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
Output Isolation	: Required
OverDrive Protection	: Required

RF Connectors (Input & Output)	: Type N Female in Front Panel
Cooling	: Forced Air
Form Factor	: Rack Mountable
Technology	: Solid State
Remote Interface	: IEEE-488, RS-232, USB, TCP/IP
Power	: 230 Volts AC, 50 Hz, Single Phase
Warranty	: Three year from the date of acceptance of the system