

604L Specifications

Revision Level: E

Class of Operation	Class A
Frequency Range	0.5 to 1000 MHz instantaneous
Rated RF Power Output	4.0 Watts (+36.0 dBm) minimum at 1 dB gain compression
Saturated RF Power Output	6.0 Watts minimum at 0dBm RF power input
Harmonic Level	-20 dBc minimum at rated RF power output
Third Order Intercept Point	+47 dBm typical; +45 dBm minimum
Small Signal Gain	45 dB nominal; 47 dB maximum
Small Signal Gain Flatness	±1.5 dB typical; ±2 dB maximum
Noise Figure	10 dB maximum, 1.0 to 1000 MHz 12 dB maximum, 0.5 to 1.0 MHz
Load Impedance for Ratings	50Ω / 1.10 VSWR maximum
RF Input Impedance/ VSWR	50Ω / 2.5:1 maximum
RF Output Impedance/ VSWR	50Ω / 3.0:1 maximum
RF Input Overdrive Limit	+13 dBm (1 V _{rms}) maximum
RF Stability	Unconditional
Spurious Output	-60 dBc minimum
Protection RF Amplifier Module	Fully protected against out-of-band operation, overdrive, output load VSWR and over-temperature

Primary AC Power Input

Voltage	100 - 120 or 200 - 240 VAC; +10%, -15% (85-132 or 170-264); automatically selected
Current	2.8A RMS maximum (85 VAC) 1.4A RMS maximum (170 VAC)
Frequency	47-63 Hz
Frequency Option	360-440 Hz

Note: 360-440Hz AC power line frequency operation is optional. When operating within the optional AC line frequency range of 360-440Hz, the model 604L is not UL recognized, CSA certified or TUV approved.

Power	240 VA maximum, single phase
Protection	Fully protected against over-voltage/ current
+27.0VDC Power Supply	
Safety Compliance	Designed to meet CSA, TUV and UL standards.

Environmental

Operating Temperature	5 to 40°C ambient*
Non-operating Temperature	-20 to 85°C ambient
Altitude	up to 6500 feet*
Humidity	up to a maximum relative humidity of 80% for temperatures from 5 to 31°C decreasing linearity to 50% maximum relative humidity at 40°C.*
Cooling System	Forced air; front panel intake, rear panel exhaust
Equipment Pollution Degree	2
Equipment Installation Category	2
Front Panel Controls	AC Power (rocker type switch)
Front Panel LED Indicators	AC ON (green) TEMP (yellow)
Front Panel Connectors	RF Input/Output - type "N" female

Rear Panel Connectors	AC POWER - IEC 320 (10A) male - AC line cord supplied, International (harmonized) ENI Part Number: 11710
Rear Panel Chassis Ground Stud	M6 (metric) thread
Size (H x W x D)	3.46 x 8.81 x 15.13" nominal (88.0 x 223.8 x 384.2 mm) <i>Dimensions exclusive of handles, connectors and feet</i>
Weight	9.5 lbs (4.3 kg) nominal
Rack-Mounting Option	19" EIA rack-mounting front panel