

## rf/microwave instrumentation

Model 52551G4 525 Watts CW 0.8-4.2GHz

The Model 525S1G4 is a portable, self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Push-pull circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability. The Model 525S1G4, when used with a sweep generator, will provide a minimum of 525 watts of RF power.

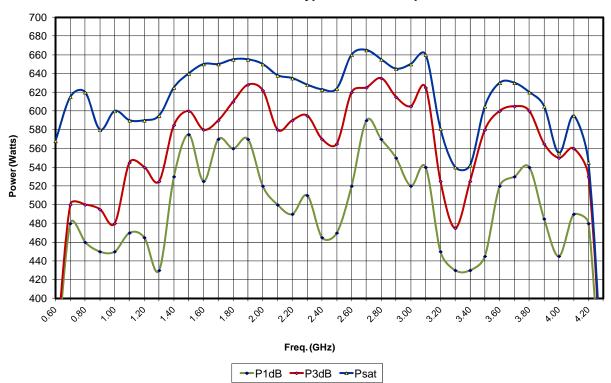
The Model 525S1G4 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a graphic liquid crystal display, menu assigned softkeys, a single rotary knob, and four dedicated switches (POWER, STANDBY, OPERATE and FAULT/RESET) to offer extensive control and status reporting capability. The display provides operational presentation of Forward Power and Reflected Power plus control status and reports of internal amplifier status. Special features include a gain control and RF output level protection.

All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, RS-232 hardwire and fiber optic, USB, and Ethernet. The bus interface connector is located on the back panel and positive control of local or remote operation is assured by a Local/Remote switch on the front panel of the amplifier.

The low level of spurious signals and linearity of the Model 525S1G4 make it ideal for use as a driver amplifier in testing wireless and communication components and subsystems. It can be used as a test instrument covering multiple frequency bands and is suitable for a variety of communication technologies such as CDMA, W-CDMA, TDMA, GSM etc. It is also suitable for EMC Test applications where undistorted modulation envelopes are desired.

The export classification for this equipment is 3A001. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.

## Model 525S1G4 Typical Power Output



## SPECIFICATIONS, MODEL 525S1G4

RATED OUTPUT POWER	525 watts minimum
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
POWER OUTPUT @ 3dB COMPRESSION Nominal Minimum	
POWER OUTPUT @ 1dB COMPRESSION  Nominal  Minimum	
FLATNESS	±2.0 dB typical ±2.5 dB maximum
FREQUENCY RESPONSE	0.8-4.2GHz instantaneously
GAIN (at maximum setting)	57.2 dB minimum
GAIN ADJUSTMENT	15 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum
OUTPUT IMPEDANCE	50 ohms nominal
MISMATCH TOLERANCE*	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance. *See Application Note #27
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal.
HARMONIC DISTORTION	Minus 20 dBc maximum at 500 watts
THIRD ORDER INTERCEPT POINT	66 dBm typical
RF POWER DISPLAY	Digital, forward and reflected
PRIMARY POWER	200-260VAC 50/60 Hz, single phase 3000 watts
CONNECTORS  RF Input	Type 7/8 EIA female on rear panel 15 pin female subminiature D on rear panel IEEE-488 (GPIB)& RS-232 connector on rear panel ST Conn Tx and Rx RS-232 Type B
	Allows control and monitoring of all front panel controls except keylock position control
COOLING	Forced air (self contained fans)
WEIGHT	118 kg (260 lbs)
SIZE (W x H x D)	50.3 x 127 x 61 cm (19.8 x 50 x 24 in)
EXPORT CLASSIFICATION	3A001