

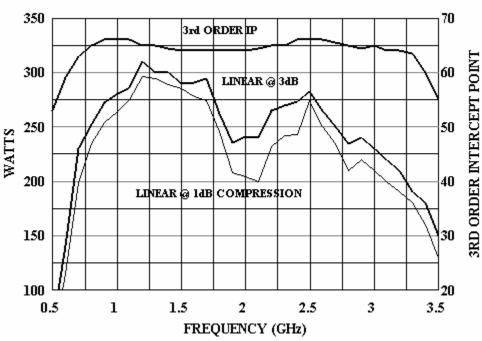
The Model 240S1G3 is a portable, self-contained, air-cooled, broadband, completely solid-state amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Push-pull circuitry is utilized in all high power stages in the interest of lowering distortion and improving stability. The Model 240S1G3, when used with a sweep generator, will provide a minimum of 240 watts of RF power.

The Model 240S1G3 is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a digital 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, internal/external automatic level control (ALC) with front panel control of the ALC threshold, pulse input capability and RF output level protection. Also included is an internal RF detector that provides an output for use in self-testing or operational modes.

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

The low level of spurious signals and linearity of the Model 240S1G3 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.





SPECIFICATIONS Model 240S1G3

RATED OUTPUT POWER			
INPUT FOR RATED OUTPUT			
	1.0 miiiwaii maximum		
POWER OUTPUT @ 3 dB COMPRESSION Nominal Minimum			
POWER OUTPUT @ 1 dB COMPRESSION			
Nominal			
Minimum			
FLATNESS			
	± 1.0 dB with internal leveling		
FREQUENCY RESPONSE	•		
GAIN (at maximum setting)	54 dB minimum		
GAIN ADJUSTMENT	15 dB minimum		
INPUT IMPEDANCE	50 ohms, VSWR 2.0:1 maximum		
OUTPUT IMPEDANCE	50 ohms, VSWR 2.5:1 maximum		
MISMATCH TOLERANCE *			
MODULATION CAPABILITY			
HARMONIC DISTORTION	Minus 20 dBc maximum at 200 watts		
THIRD ORDER INTERCEPT POINT	65 dBm typical		
RF POWER DISPLAY	Digital, forward and reflected		
PRIMARY POWER			
	50/60 Hz, single phase		
CONNECTOR	2150 watts		
CONNECTORS RF connectors	See Model Configurations		
Detected RF output			
Safety interlock			
	IEEE-488 (GPIB)& RS-232 connector on rear panel		
Remote computer interface (fiber optic)			
Others			
IEEE-488 (GPIB) INTERFACE & RS-232			
COOLING	except keylock position control		
COOLING	r orcea air (seij containea jans)		

*See Application Note #27

MODEL CONFIGURATIONS

MODEL NUMBER	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
240S1G3	Type N female on front panel	Type N female on front panel	172.4 kg (380 lbs)	56.1 x 109 x 67.1 cm (22.1 x 43.0 x 26.4 in)
240S1G3M1	Type N female on rear panel	Type N female on rear panel	172.4 kg (380 lbs)	56.1 x 109 x 67.1 cm (22.1 x 43.0 x 26.4 in)
	Type N female on rear panel	Type N female on rear panel		56 x 138 x 67.1 cm
	to allow space for customer ent to be mounted	184 kg (405 lbs)	(22 x 54.3 x 26.4 in)	