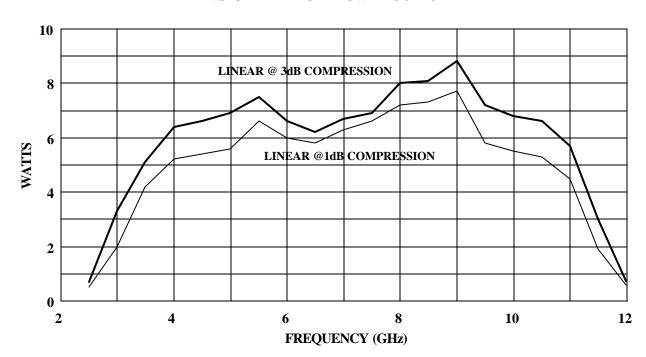


MODEL 5S4G11 M1, M2, M3 5 WATTS CW 4.0 – 10.6 GHz

The Model 5S4G11 is a solid state, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth and high gain are required. Housed in a stylish contemporary cabinet, the unit is designed for benchtop use, but can be removed from the cabinet for immediate equipment rack mounting. The 5S4G11, when used with a sweep generator, will provide a minimum of 5 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 5S4G11 is protected from RF input overdrive by an RF input leveling circuit which controls the RF input level to the RF amplifier first stage when the RF input level is increased above 0 dBm. The RF Amplifier stages are protected from over temperature by removing the DC voltage to them if an over temperature condition occurs due to cooling blockage or fan failure. The unit can be returned to operate when the condition has been cleared.

5S4G11M TYPICAL POWER OUTPUT



REV013103

SPECIFICATIONS Model 5S4G11

RATED POWER OUTPUT	5 watts minimum
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
POWER OUTPUT @ 3dB COMPRESSION Nominal	
POWER OUTPUT @ 1dB COMPRESSION Nominal Minimum	
FLATNESS	±2.0 dB typical ±3.0 dB maximum
FREQUENCY RESPONSE	4.0-10.6 GHz instantaneously
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
GAIN (at maximum setting)	37 dB minimum
GAIN ADJUSTMENT (Continuous Range)	10 dB minimum
INPUT IMPEDANCE	50 ohms, VSWR 2.5:1 maximum
OUTPUT IMPEDANCE	50 ohms, nominal
MISMATCH TOLERANCE*	100% of rated power without foldback. Will operate without damage or oscillation wi th any magnitude and phase of source and load impedance.
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION	Minus 20 dBc maximum at 5 watts
THIRD ORDER INTERCEPT POINT	47 dBm typical
PRIMARY POWER (Selected Automatically)	90-132, 180-264 VAC 50/60 Hz, single phase 175 watts maximum
COOLING	Forced air (self contained fans)
* See Application Note #27	

Model Configurations

Model Number	RF Input	RF Output	Weight	Size (Wx Hx D)
5S4G11	Type N female Front Panel	Type N female Front Panel	20.5 Kg (45.0 lb)	50.3 x 15.5 x 37.6 cm
				19.8 x 6.1 x 14.8 in
5S4G11M1	Type N female on rear panel	Type N female on rear	20.5 Kg (45.0 lb)	50.3 x 15.5 x 37.6 cm
		panel		19.8 x 6.1 x 14.8 in
5S4G11M2	Same as 5S4G11 with enclosure removed for rack mounting		15.0 Kg (33.0 lb)	48.3 x 12.7 x 37.6 cm
				19.0 x 5.0 x 14.8 in
5S4G11M3	Same as 5S4G11M1 with enclosure removed for rack		15.0 Kg (33.0 lb)	48.3 x 12.7 x 37.6 cm
	mounting			19.0 x 5.0 x 14.8 in