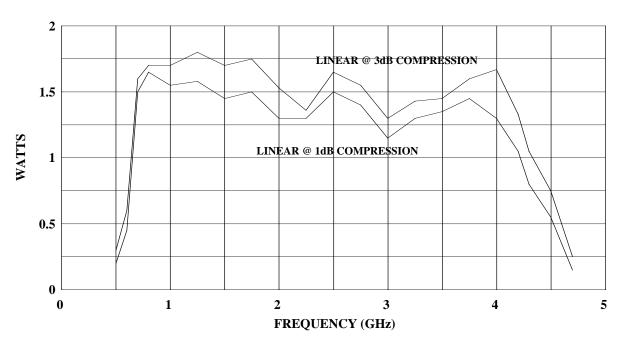


160 School House Road, Souderton, PA 18964-9990 USA Phone 215-723-8181• FAX 215-723-5688 MODEL 1S1G4A M1, M2, M3 1 WATT CW 0.8 -4.2 GHz

The Model 1S1G4A 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 1S1G4A, when used with a sweep generator, will provide a minimum of 1 watt of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 1S1G4A 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.

#### **1S1G4A TYPICAL POWER OUTPUT**



### SPECIFICATIONS Model 1S1G4A

RATED POWER OUTPUT	1 watt minimum		
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum		
POWER OUTPUT @ 3dB COMPRESSION  Nominal Minimum			
POWER OUTPUT @ 1dB COMPRESSION  Nominal Minimum			
FLATNESS	±1.0 dB typical ±1.5 dB maximum		
FREQUENCY RESPONSE	. 0.8 -4.2 GHz instantaneously		
GAIN (at maximum setting)	. 30 dB minimum		
GAIN ADJUSTMENT (Continuous Range)	. 10 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.		
MODULATION CAPABILITY	. Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal		
HARMONIC DISTORTION	. Minus 20 dBc maximum at 0.8 watts		
THIRD ORDER INTERCEPT POINT	. 41 dBm typical		
PRIMARY POWER (Selected Automatically)	. 90-132, 180-264 VAC 50/60 Hz, single phase 50 watts maximum		
CONNECTORS	. Type $N$ female ( see Model Configuration)		
COOLING* * See Application Note #27	. Forced air (self contained fans)		

## Model Configurations

Model Number	RF Connectors	Instrument Case	Weight	Size
1S1G4A	Front	Yes	6.4 Kg (14.0 lb)	26 x 10.9 x 28.2 cm
				10.3 x 4.3 x 11.1 in
1S1G4AM1	Rear	Yes	6.4 Kg (14.0 lb)	26 x 10.9 x 28.2 cm
				10.3 x 4.3 x 11.1 in
1S1G4AM2	Front	No	2.9 Kg (6.5 lb)	24.1 x 9.4 x 27.9 cm
				9.5 x 3.7 x 11 in
1S1G4AM3	Rear	No	2.9 Kg (6.5 lb)	24.1 x 9.4 x 27.9 cm
				9.5 x 3.7 x 11 in



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