

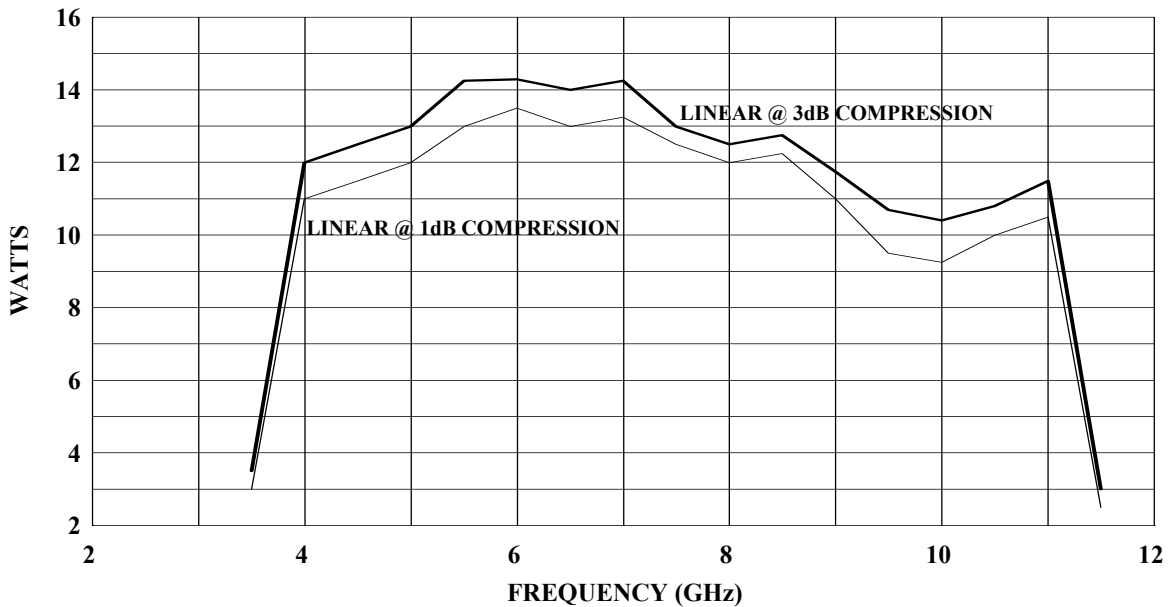


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MODEL 10S4G11  
M1, M2, M3  
10 WATTS CW  
4.0 – 10.6 GHz

The Model 10S4G11 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 10S4G11, when used with a sweep generator, will provide a minimum of 10 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 10S4G11 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. There is a digital display on the front panel to indicate the operate status and fault conditions when an overtemperature or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared. The 10S4G11 includes digital control for both local and remote control of the amplifier. This 8-bit RISC microprocessor controlled board provides both IEEE-488 (GPIB) and asynchronous, full duplex RS-232 control of all amplifier functions.

10S4G11 TYPICAL POWER OUTPUT



**SPECIFICATIONS  
Model 10S4G11**

<b>RATED POWER OUTPUT</b> .....	<b>10 watts minimum</b>
<b>POWER OUTPUT @ 3dB COMPRESSION</b>	
Nominal.....	13 watts
Minimum.....	10 watts
<b>POWER OUTPUT @ 1dB COMPRESSION</b>	
Nominal.....	11 watts
Minimum.....	9 watts
<b>FLATNESS</b> .....	±2.0 dB typical ±3.0 dB maximum
<b>FREQUENCY RESPONSE</b> .....	4.0 – 10.6 GHz instantaneously
<b>INPUT FOR RATE OUTPUT</b> .....	1.0 milliwatt maximum, 0 dBm
<b>GAIN (at maximum setting)</b> .....	40 dB minimum
<b>GAIN ADJUSTMENT (Continuous Range)</b> .....	10 dB minimum
<b>INPUT IMPEDANCE</b> .....	50 ohms, VSWR 2.5:1 maximum
<b>OUTPUT IMPEDANCE</b> .....	50 ohms, nominal
<b>MISMATCH TOLERANCE *</b> .....	100% of rated power without foldback. Will operate without damage or oscillation with any magnitude and phase of source and load impedance.
<b>MODULATION CAPABILITY</b> .....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
<b>HARMONIC DISTORTION</b> .....	Minus 20 dBc maximum at 10 watts
<b>THIRD ORDER INTERCEPT POINT</b> .....	50 dBm typical
<b>PRIMARY POWER (selected automatically)</b> .....	90-132, 180-264 VAC 50/60 Hz, single phase <300 watts maximum
<b>CONNECTORS</b>	
<b>RF</b> .....	Type N female
<b>REMOTE INTERFACES</b>	
<b>IEEE-488</b> .....	24 pin female
<b>RS-232</b> .....	9 pin Subminiature D (female)
<b>SAFETY INTERLOCK</b> .....	15 Pin Subminiature D
<b>COOLING</b> .....	Forced air (self contained fans)

**OPTIONAL CONFIGURATIONS**

<b>MODEL NUMBER</b>	<b>RF INPUT</b>	<b>RF OUTPUT</b>	<b>WEIGHT</b>	<b>SIZE (W x H x D)</b>
<b>10S4G11</b>	<i>Type N female on front panel</i>	<i>Type N female on front panel</i>	<b>21 kg (45 lbs)</b>	<b>50.3 x 15.5 x 47.6 cm 19.8 x 6.1 x 18.75 in</b>
<b>10S4G11M1</b>	<i>Type N female on rear panel</i>	<i>Type N female on rear panel</i>	<b>21 kg (45 lbs)</b>	<b>50.3 x 15.5 x 47.6 cm 19.8 x 6.1 x 18.75 in</b>
<b>10S4G11M2</b>	<i>Same as 10S4G11 with enclosure removed for rack mounting</i>		<b>14 kg (30 lbs)</b>	<b>48.3 x 12.7 x 47.6 cm 19.0 x 5.0 x 18.75 in</b>
<b>10S4G11M3</b>	<i>Same as 10S4G11M1 with enclosure removed for rack mounting</i>		<b>14 kg (30 lbs)</b>	<b>48.3 x 12.7 x 47.6 cm 19.0 x 5.0 x 18.75 in</b>