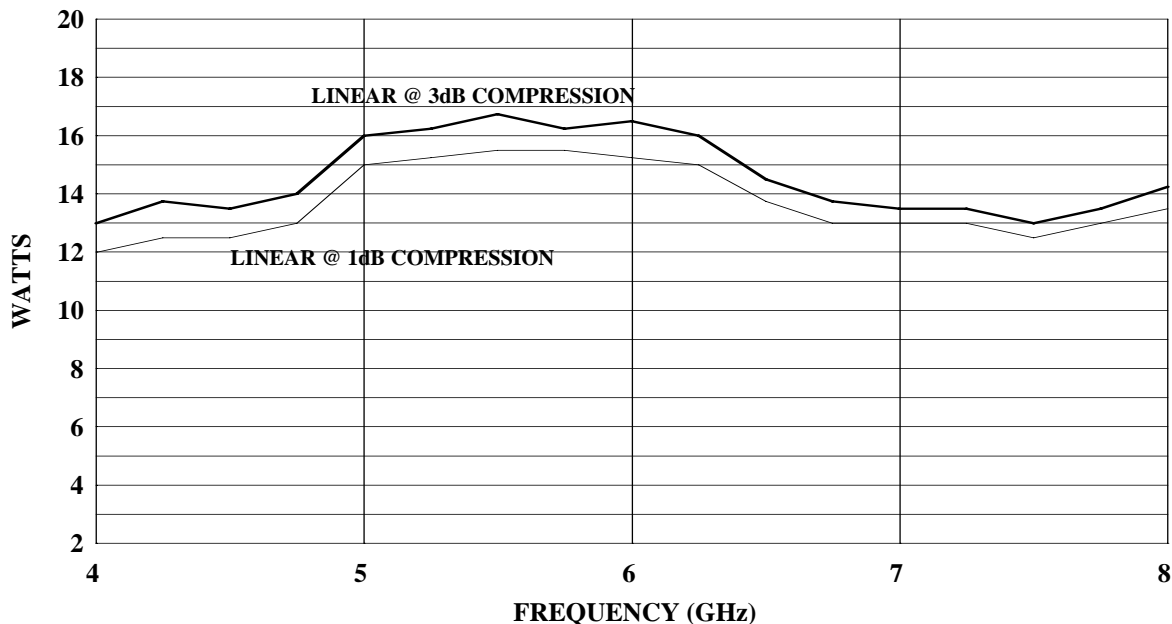


**Model 15S5G7,
M1 through M3
15 Watts CW
5.0-7.0 GHz**

The Model 15S5G7 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 bench top use, but can be removed from the cabinet for immediate equipment rack mounting. The 15S5G7, when used with a sweep generator, will provide a minimum of 15 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 15S5G7 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 15S5G7 includes digital controls 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.

15S5G7 TYPICAL POWER OUTPUT



SPECIFICATIONS

RATED POWER OUTPUT	15 watt minimum
POWER OUTPUT @ 3dB COMPRESSION	
Nominal	14 watts
Minimum	12 watts
POWER OUTPUT @ 1dB COMPRESSION	
Nominal	13 watts
Minimum	11 watts
FLATNESS.....	±2.0 dB typical ±3.0 dB maximum
FREQUENCY RESPONSE	5.0 – 7.0 GHz instantaneously
INPUT FOR RATE OUTPUT	1.0 milliwatt maximum, 0 dBm
GAIN (at maximum setting)	40 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 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 15 watts
THIRD ORDER INTERCEPT POINT	50 dBm typical
PRIMARY POWER (selected automatically).....	90-132, 180-264 VAC 50/60 Hz, single phase <300 watts maximum
CONNECTORS	
RF.....	Type N female
REMOTE INTERFACES	
IEEE-488.....	24 pin female
RS-232	9 pin Subminiature D (female)
SAFETY INTERLOCK.....	15 Pin Subminiature D
COOLING.....	Forced air (self contained fans)

OPTIONAL CONFIGURATIONS

MODEL NUMBER	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
15S5G7	Type N female on front panel	Type N female on front panel	35.0 kg (77.0 lb)	50.3 x 20.3 x 54.6 cm 19.8 x 8.0 x 15 in
15S5G7M1	Type N female on rear panel	Type N female on rear panel	35.0 kg (77.0 lb)	50.3 x 20.3 x 54.6 cm 19.8 x 8.0 x 15 in
15S5G7M2	Same as 15S5G7 with enclosure removed for rack mounting		25.6 kg (57.0 lb)	48.3 x 17.8 x 54.6 cm 19.0 x 7.0 x 15 in
15S5G7M3	Same as 15S5G7M1 with enclosure removed for rack mounting		25.6 kg (57.0 lb)	48.3 x 17.8 x 54.6 cm 19.0 x 7.0 x 15 in