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## rf/microwave instrumentation

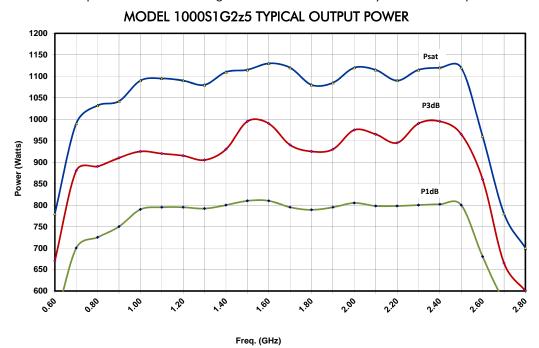
Model 1000S1G2z5, M1 through M3 1000 Watts CW 1.0-2.5GHz

The Model 1000S1G2z5 is a solid state, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth, high gain and linearity 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 1000S1G2z5, when used with a sweep generator, will provide a minimum of 1000 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 1000S1G2z5 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 if an over-temperature or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared. All amplifier control functions and status indications are available remotely in GPIB/IEEE-488 format, RS-232 hardwire and fiber optic, USB, and Ethernet. The bus interface connector is located on the back panel and positive control of local or remote operation is assured by a Local/Remote switch on the front panel of the amplifier.

The low level of spurious signals and linearity of the Model 1000S1G2z5 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.

The export classification for this equipment is EAR99. These commodities, technology or software are controlled for export in accordance with the U.S. Export Administration Regulations. Diversion contrary to U.S. law is prohibited.



## SPECIFICATIONS, MODEL 1000S1G2z5

or Edit for	
RATED POWER OUTPUT	
INPUT FOR RATED OUTPUT	1.0 milliwatt maximum
POWER OUTPUT @ 3dB COMPRESSSION  Nominal	
POWER OUTPUT @ 1dB COMPRESSION  Nominal	
AVERAGE OUTPUT POWER @ 3.2GHz AND ABOVE	Less than 60 watts
FLATNESS	±1.5 dB typical ±2.0 dB maximum
FREQUENCY RESPONSE	1.0–2.5 GHz instantaneously
GAIN (at maximum setting)	60 dB minimum
GAIN ADJUSTMENT	
(Continuous Range)(4096 steps remote)	20 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. *See Application Note #27.
MODULATION CAPABILITY	Will faithfully reproduce AM, FM, or pulse Modulation appearing on the input signal
THIRD ORDER INTERCEPT	69 dBm typical
NOISE FIGURE	10 dB typical
HARMONIC DISTORTION	Minus 20 dBc max at 700 watts
SPURIOUS	Minus 73 dBc Typ.
PHASE LINEARITY	±1.0 deg/100 MHz, Typ
PRIMARY POWER (Selected Automatically)	200-264 VAC
,	50/60 Hz, single phase
CONNECTORS	4500 watts maximum
RF INPUT	Type N female
RF OUTPUT	Type 7/8 EIA female
REMOTE INTERFACES IEEE-488	24 nin
RS-232	
RS-232 (fiber optic)	Type ST
USB 2.0	
Ethernet	
SAFETY INTERLOCK	·
COOLING	,
EXPORT CLASSIFICATION	
MOI	DEL CONFIGURATIONS

MODEL	CONFIGURATION:	C

MODEL	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
1000\$1G2z5	Type N female, front panel	Type 7/8 EIA female, front panel	148 kg (325 lbs)	50.3 x 127 x 61 cm 19.8 x 50 x 24 in
1000\$1G2z5M1	Type N female, rear panel	Type 7/8 EIA female, rear panel	148 kg (325 lbs)	50.3 x 127 x 61 cm 19.8 x 50 x 24 in