

rf/microwave instrumentation

Model 20051G6 M1 through M3 200 Watts CW 0.7GHz-6GHz



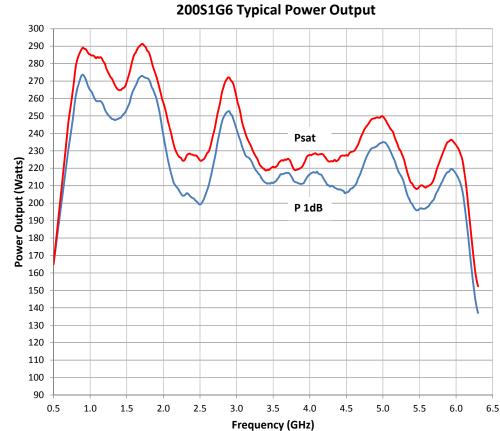
The Model 200S1G6 is a solid-state, Class A design, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Housed in a stylish contemporary cabinet, the unit is designed for benchtop use, but can be removed from the cabinet for immediate equipment rack mounting.

The 200S1G6, when used with a sweep generator, will provide a minimum of 200 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 200S1G6 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 200\$1G6 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 coverina multiple frequency bands and is suitable for 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 3A001. 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 200S1G6

INPUT FOR RATED OUTPUT.......1.0 milliwatt maximum POWER OUTPUT @ 3dB COMPRESSSION POWER OUTPUT @ 1dB COMPRESSION SMALL SIGNAL GAIN FLATNESS.....±1.5 dB typical ±2.5 dB maximum **GAIN ADJUSTMENT** (Continuous Range)......10 dB minimum (4096 steps remote) 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 HARMONIC DISTORTION......Minus 20 dBc maximum at 180 watts, (1.0-6.0 GHz) Minus 15 dBc typical at 180 watts, (0.7–1.0 GHz) SPURIOUSMinus 73 dBc Typ. PHASE LINEARITY.....±1.0 deg/100 MHz, Typ PRIMARY POWER (Selected Automatically)90-132, 180-264 VAC 50/60 Hz, single phase 1900 watts maximum **CONNECTORS** RF.....Type N female REMOTE INTERFACES IEEE-488......24 pin RS-232 (fiber optic)Type ST USB 2.0.....Type B EthernetRJ-45 COOLING......Forced air (self contained fans) EXPORT CLASSIFICATION3A001

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MODEL	RF INPUT	RF OUTPUT	WEIGHT	SIZE (W x H x D)
200\$1G6	Type N female, front panel	Type N female, front panel	86.2 kg (190 lbs)	50.3 x 55.9 x 61 cm 19.8 x 22 x 24 in
200S1G6M1	Type N female, rear panel	Type N female, rear panel	86.2 kg (190 lbs)	50.3 x 55.9 x 61 cm 19.8 x 22 x 24 in
200S1G6M2	Same as 200S1G6 with enclosure removed for rack mounting		68 kg (130 lbs)	48.3 x 53.3 x 61 cm 19.0 x 21 x 24 in
200S1G6M3	Same as 200S1G6M1 with e	nclosure removed for rack mounting	68 kg (130 lbs)	48.3 x 53.3 x 61 cm 19.0 x 21 x 24 in