

RF SIGNAL GENERATORS



GR-104 / GR-205



SPECIFICATIONS	GR-205 2 GHz RF GENERATOR
PM Modulation Peak Deviation Setting Resolution Signal Modulation Distortion	From 0.05 to 10-80 radians depending on freq. 0.05 or 0.1 radians Internal 400 Hz and 1 kHz or external 100 Hz to 10 kHz < 2% modulation freq. at 1 kHz and max. deviation
AM Modulation Depth max. modulation Setting Resolution Accuracy External Modulation Distortion	100 %, decreasing up to 90 % @ 2 GHz 0.5 % < ± (5% selected value + 1%) for 1 kHz modulation and < 70 % depth 50 Hz to 200 kHz (± 1 dB relative to 1 kHz) < 3% (< 1 GHz) 30 % depth

SPECIFICATIONS	GR-104 1 GHz RF GENERATOR	GR-205 2 GHz RF GENERATOR
General Frequency Range Resolution Accuracy Stability Phase Noise Residual FM	10 MHz to 1000 MHz 1 kHz or user-set increments < ± 1 ppm over temp. range 15 ° C to 30 ° C, < ± 2 pm over temp. range 5° C to 40 ° C < 1 ppm/year	150 kHz to 2000 MHz 10 Hz or user-set increments < -116 dBc/Hz at 25 kHz offset, 500 MHz carrier Equivalent peak derivation in a 300 Hz to 3.4 kHz bandwidth: 12 Hz at 500 MHz carrier
Output level Level Range Setting resolution Accuracy Harmonics Output Impedance Output Switch	-127 dBm to +7 dBm (0,1µV to 500 mV with 50Ω impedance); In GR-205 up to +1 dB in AM mode 0,1 dB (0,01 µV to 1 mV) or user-set increments of 0.1 dB to 100 dB Better than ± 2dBm (GR-104 from 500 MHz to 1 GHz <-70 Bm ± 3 dBm)	
	Typically <-25 dBc max. - 20 dBc, output level <0 dBm	<-25 dBc to +7 dBm
	50 Ω	
	RF OUT on-off switch with LED showing ON status	
FM Modulation Peak Deviation Setting Resolution Modulation Frequency Deviation Accuracy External Modulation Frequency Response Distortion	0.5 kHz to 100kHz 0.5 kHz Internal 1kHz, External 300 Hz to 50 kHz <±10% of setting ± 1 dB from 30Hz to 50 kHz relative to 1kHz <2% total harmonic distortion at 1kHz modulating frequency, and max. deviation	0.5 kHz to 100 - 800 kHz depending on freq. Internal 400 Hz and 1 kHz, External 100 Hz to 300 kHz ± 2 dB relative to 1 kHz
Remote Control Interfaces	RS-232 (standard) and IEE-488 (GPIB) (optional)	RS-232 and IEE-488 (GPIB)
Display	80 character back-lit LCD display	
Power Supply Mains Consumption	240-220 V, 120-110 V, 100 V adjustable internally Máximo 30 VA	
Operating Environmental Conditions Temperature range Max. Relative humidity Altitude Storage Temperature	From 5 to 40 °C 80 % max. (without condensation) Up to 2000 m max Indoor use, Category II, Pollution degree 2 From -20 ° C to 60 ° C	
Mechanical Features Dimensions Weight	W. 212 x H.130 x D. 330 mm 4.6 kg	5 kg