RF SIGNAL GENERATORS

GR-104 / GR-205

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

SPECIFICATIONS	GR-104 1 GHz RF GENERATOR	GR-205 2 GHz RF GENERATOR
General		
Frequency Range	10 MHz to 1000 MHz	150 kHz to 2000 MHz
Resolution	1 kHz or user-set increments	10 Hz or user-set increments
Accuracy	< ± 1 ppm over temp. range 15 º C to 30 º C, < ± 2 pm over temp. range 5º C to 40 º C	
Stability	< 1 ppm/year	
Phase Noise	< -110 dBc/Hz at 25 kHz offset, 500 MHz carrier	< -116 dBc/Hz at 25 kHz offset, 500 MHz carrier
Residual FM	Equivalent peak derivation in a 300 Hz to 3.4 kHz bandwidth: 17 Hz at 500 MHz carrier	Equivalent peak derivation in a 300 Hz to 3.4 kHz bandwidth: 12 Hz at 500 MHz carrier
Output level		
Legel Range	-127 dBm to + 7 dBm (0,1µV to 500 mV with 50Ω impedance); In GR-205 up to +1 dB in AM mode	
Setting resolution	0,1 dB (0,01 µV to 1 mV) or user-set increments of 0.1 dB to 100 dB	
Accuracy	Better than ± 2dBm (GR-104 from 500 MHz to 1 GHz <-70 Bm ± 3 dBm)	
Harmonics	Typically <-25 dBc max. - 20 dBc, output level	<0 dBm <-25 dBc to +7 dBm
Output Impedance	50 Ω	
Output Switch	RF OUT on-off switch with LED showing ON status	
FM Modulation		
Peak Deviation	0.5 kHz to 100kHz	0.5 kHz to 100 - 800 kHz depending on freq.
Setting Resolution	0.5 kHz	
Modulation Frequency	Internal 1kHz, External 300 Hz to 50 kHz	Internal 400 Hz and 1 kHz, External 100 Hz to 300 kHz
Deviation Accuracy	±10% of setting	
External Modulation Frequency Response	± 1 dB from 30Hz to 50 kHz relative to 1kHz	± 2 dB relative to 1 kHz
Distortion	<2% total harmonic distortion at 1kHz modulating frequency, and max. deviation	
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	240-220 V, 120-110 V, 100 V adjustable internally	
Consumption	Max. 30 VA	
Mechanical features		
Dimensions	W. 212 x H.130 x D. 330 mm	
Weight	4.6 kg	5 kg

Specifications subject to change without notice

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