

RF / Audio Generators



2005B

Model 2005B 150 MHz RF Signal Generator

- 100 kHz to 150 MHz on six bands
- Output to 450 MHz on harmonics
- AM modulation, internal or external
- Frequency monitor output for external frequency counter
- Step and variable attenuation



3001

Model 3001 20 Hz-150 kHz Sine/Square Wave Audio Generator

- Sine and square wave generator
- 20 Hz to 150 kHz in 46 steps
- Low distortion R-C oscillator
- Variable output control
- Compact, fully portable, light weight
- Low battery indicator

Specifications		model
		2005B
MAIN OUTPUT		
Frequency Range	100 kHz to 150 MHz (up to 450 MHz on third harmonics) A) 100 kHz-300 kHz B) 300 kHz-1 MHz C) 1 MHz-3.2 MHz D) 3 MHz-10 MHz E) 10 MHz-35 MHz F) 32 MHz-150MHz (96-450 MHz on harmonics)	
Dial Accuracy	± 3%	
RF Output Level	Continuously variable. Step attenuator provides approximately 20 dB of attenuation	
Maximum Output	Approximately 100 mV rms to 35 MHz. Continuously variable in hi or lo step, at least 20 dB range of adjustment	
FREQUENCY MONITOR OUTPUT		
Frequency	100 kHz to 150 MHz	
Level	50 mV rms min. fixed, unmodulated signal	
AMPLITUDE MODULATION		
Internal	Frequency 1 kHz; level continuously variable. Modulation signal available at front panel jack; fixed 1 V rms (min) into approx. 10 kΩ	
External	Frequency 50 Hz to 20 kHz	
Sensitivity	Approximately 100 mV rms	
POWER SOURCE	120/220/240V ± 10%, 50/60 Hz	
GENERAL		
Dimensions (HxWxD)	5.91 x 9.84 x 5.12" (150 x 250 x 130 mm)	
Weight	5.5 lbs. (2.5 kg)	
Accessories		One Year Warranty
SUPPLIED: BNC to Insulated Clip Output Cable, Detachable Power Cord, Instruction Manual		

Specifications		model
	3001	
Frequency Range	x1 range 20 Hz to 1.5 kHz (23 steps), x100 range 2 kHz to 150 kHz (23 steps)	
Accuracy	20 Hz through 100 kHz ($\pm 3\%$ or less), 120 kHz and 150 kHz ($\pm 5\%$ or less)	
Output Control	0dB/-20dB attenuator switch and variable amplitude control	
Output impedance	approx. 600 Ω	
SINEWAVE CHARACTERISTICS		
Output Voltage	> 1.2V rms at max. setting (no load)	
Output Flatness	(Short term) 20 Hz to 150 kHz ± 0.5 dB (reference frequency 1 kHz)	
Distortion	200 Hz—15kHz 0.5% (THD) or less, 50 Hz—28 kHz 0.1% (THD) or less, 20 Hz—100kHz 0.3% (THD) or less	
SQUARE WAVE CHARACTERISTICS		
Output Voltage	> 5V p-p at maximum setting	
Rise and Fall Time	Less than 0.5microseconds	
Sag	Less than 5% at 20 Hz (DC coupled)	
Over Shoot	<2% from maximum output, to 50mV p-p	
Duty Ratio	50% + 5%	
SYNC OUTPUT CHARACTERISTICS		
Output Voltage	> 1.2V rms (no load)	
Output Impedance	1k Ω + 5%	
Other specifications same as sinewave characteristics		
GENERAL INFORMATION		
Operating Temperature	0°C to +50°C; specifications apply from 10°C to 30°C, <80% R.H.	
Storage Temperature	-20°C to +60°C, without battery	
Power Requirements	9V battery NEDA 1604A	
Battery Life	35 hours typical with Alkaline	
Battery Indicator	LED indicates low battery	
Dimensions (HxWxD)	6 x 3.3 x 0.9" (150 x 82 x 21mm)	
Weight	7 oz. (200 g) including battery	
Accessories		One Year Warranty
SUPPLIED: Two standard banana plug to insulated clip test leads, 9V battery, Instruction manual		