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## Characteristics of the Wavetek 2407 Signal Generator

### DESCRIPTION

The 2407 RF Signal Generator is a dual microprocessor controlled synthesized signal generator that covers the frequency range of 10kHz to 550MHz. It has an RF output range from +13 to -127 dBm and exhibits an output accuracy of  $\pm 1.5$  dB. Resolution is 10Hz on an 8-digit display. It has a very broad peak FM deviation; 16 standard stored settings, wide AM bandwidth of 50kHz, reverse power protection, and external clock input/output. The deviation meter measures deviations from 0 to 500kHz. It has excellent spectral purity and residual FM specifications.

### Specifications:

#### Frequency

Frequency range: 10 kHz - 550 MHz  
Resolution: 10 Hz; digital readout  
Switching time: 200 ms

#### Reference

Internal: 10 MHz  
External: 10 MHz or 5 MHz TTL

#### RF

Level range: +13 - -127 dB (1 volt to 0.1 uvolt)  
level resolution: 0.1 dB  
level accuracy:  $\pm 1.5$  dB of set output level  
Impedance: 50 ohms

#### AM Characteristics

Frequency response: 10 Hz - 50 kHz, 3 dB BW; 50% modulation  
resolution: 0.1%

#### FM Characteristics

resolution: 100 Hz (for deviations <100kHz)  
1 kHz (for deviations < 1 MHz)  
rate: 50 Hz - 100 kHz (3 dB BW)

#### FM Deviation Meter Characteristics

Frequency Input:	30 to 500 MHz
Input signal level:	15 mV to 5 V rms
Impedance:	50 Ohms
Measurement range:	0 to 500 kHz
Modulation rate:	100 Hz to 8 kHz



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