

PSA5000T

1GHz Spectrum Analyzer



- ▶ Cost-effective spectrum testing solution for broadcast transmitter performance and communication system network operations
- ▶ Wide frequency range 0.15-1050 MHz enables testing of SUB/VHF, CATV, and broadcast signals
- ▶ Real-time digital display provides up to 4000 display on-screen points
- ▶ 4¹/₂-Digit Display indicates center and marker frequencies with fine 0.1MHz resolution
- ▶ High sensitivity -40 dBmV minimum input enables low signal level and performance testing
- ▶ Wide-Amplitude Range -100dBm to +13dBm
- ▶ 20kHz, 400kHz and Video Filters
- ▶ Tracking generator enables sweeping of passive devices
- ▶ Lightweight and relatively small package enables convenient portability

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Pico Macom's PSA5000T Spectrum Analyzer provides excellent RF performance, featuring both fine and coarse center frequency controls, combined with a scan-width selector, to provide simple frequency domain measurements from 100kHz-100MHz/division. High sensitivity -40dBmV and up to 75dB on-screen dynamic range ensure visibility of weak signals in the presence of strong signals. Selectable resolution bandwidth helps when demodulating wideband signals such as actively modulated video carriers or observing close-in sidebands and spurious, or unexpected signals otherwise missed. Bandwidth, carrier-to-noise, noise power, signal search and FM deviation measurement provide power and convenience. The PSA-5000T includes an internal tracking generator providing high dynamic range swept measurements ideally suited for passive device sweep testing. It features a 4¹/₂-digit numeric LED readout that can selectively display either the center or marker frequency. The instrument is suitable for FCC compliance testing and is an excellent choice for CATV/MATV system troubleshooting.

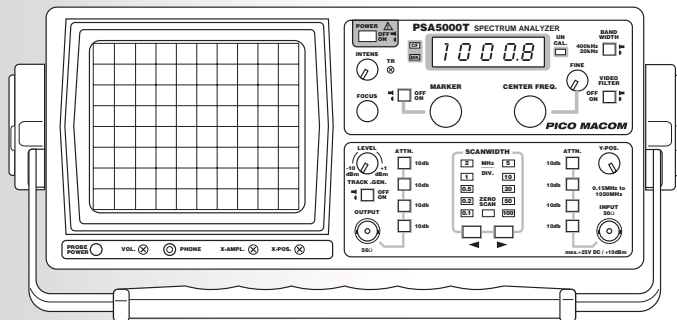
Order From:



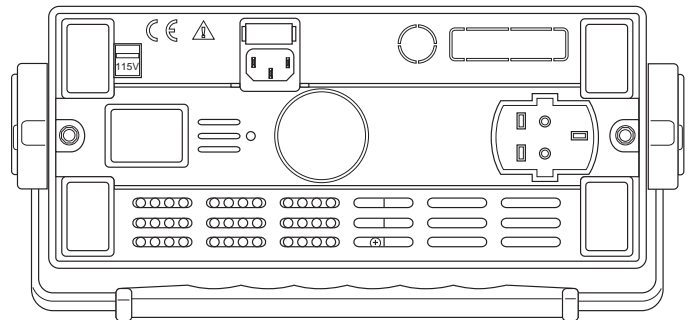
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Front View



Rear View

Frequency

Frequency Range	150 kHz to 1050 MHz (-3 dB)
Center Freq Display Accuracy	±100 kHz
Marker Accuracy	±0.1% span +100 kHz
Frequency Display Accuracy	100 kHz (4 1/2 digit LED)
Frequency Scanwidth	100 kHz/div. to 100 MHz/div. in 1-2-5 steps and Hz/div (zero scan), frequency scanwidth accuracy ±10%
IF Bandwidth	(-3 dB)
Resolution	400 kHz and 20 kHz
Video Filter On	4 kHz
Sweep Rate	43 kHz

Input

Input Impedance	50 Ohms (BNC)
Input Attenuator	0 to 40 dB (4 x 10 dB steps)
Input Attenuator Impedance	±1dB/10 dB step
Maximum Input Level	+10 dBm, 25Vdc (0 dB attenuation), +20 dBm (40 dB attenuation)

General

Line Voltage	115/230VAC ±10%, 50-60 Hz
Power Consumption	20W
Operating Temperature	0°C to 40°C
Weight	approx. 15.4 lbs.

Amplitude

Amplitude Range	-100 dBm to +13 dBm
Screen Display Range	80 dB (10 dB/div)
Reference Level	-27 dBm to +13 dBm (in 10 steps)
Reference Level Accuracy	±2 dB
Average Noise Level	-99 dBm (20 kHz BW)
Distortion	>75 dBc; 2nd and 3rd harmonic 3rd order intermod:-70 dBc (two signals >3 MHz apart)
Sensitivity	<5 dB above average noise level)
Log Scale Fidelity	±2 dB (without attenuator) Ref: 250 MHz

Tracking Generator

Output Level Range	50 dBm to +1 dBm (in 10 dB steps and var.)
Output Attenuator	0 to 40 dB (4 x 10 dB steps)
Output Attenuator Accuracy	±1 dB
Output Impedance	50 Ohms (BNC)
Frequency Response	±1.5 dB
Radio Frequency Interference (RFI)	>20 dBc

Ordering Information

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