MARS

# Spectrum Analyser 1GHz

## ME 5001TG

Spectrum Analyzer is used for the early test in the development of electrical products, troubleshooting of CATV/MATV system as well as the test and trouble diagnosis of cellular phone/paging system.

### Features

- Frequency Range :150KHz to1000MHz
- 4.5 Digit Display :Center & Marker Frequency, 0.1MHz Resolution
- Amplitude Range :-100dBm to +13dBm
- Filters : 20KHz, 250KHz & Video Filter
- AM/FM Demodulator : Included
- Full Range Built-in Tracking Generator :0.15MHz to 1000MHz,
- Output Power :+1dBm to -50dBm (50ohms)

Optional near field sniffer probe set to locate cable and PC board Emission "Hot Spot, evaluate EMC problem at the breadboard and Prototype level. Ideal solution for RF leakage/radiation detection

### Technical Specifications

| | |
|---|---|
| FREQUENCY | |
| Frequency Range | 150KHz to 1050MHz (-3dB) |
| Frequency Resolution | Resolution 100KHz, Display 4 digit |
| Display Accuracy Center Frequency | ±100KHz |
| Display Accuracy Marker Accuracy | 0.1% Span +100KHz |
| Frequency Stability | <150KHz /hr (Drift) |
| Frequency Scanwidth | Zero scan 0Hz/div, and 100KHz in 1-2-5 sequence |
| Frequency Scanwidth Accuracy | ±10% |
| IF Bandwidth (-3dB) | Resolution 20KHz & 250KHz |
| Video Bandwidth VBW | 400KHz |
| Sweep Time (Fixed) | 23ms |
| AMPLITUDE | |
| Amplitude Range | -100dBm to +13dBm |
| Screen Display Range | 80dB (10dB/div) |
| Reference Level | -27dBm to +13dBm (in 10dB steps) |
| Reference Level Accuracy | ±2dB |
| Average Noise Level | -103dBm (250KHz RBW) |
| Frequency Response | ±2dB(Relative to 250MHz, ATTN 10dB) |
| Spurious Responses Inter modulation | <-75dBc (2 signals, -27dBm (3rd order) each Freq. Distance >3MHz) |
| Harmonic Distortion | <-75 dBc (2nd, 3rd) |
| Absolute Amplitude Accuracy | ±2.5dB |
| INPUT | |
| Input Impedance | 50ohms |
| Input Connector | BNC |
| Input Attenuator | 0 to 40 dB (4 x 10dB steps) |
| Input Attenuator Accuracy | ±2dB / 10dB steps |
| Max Input Level | +10dBm, (0dB attenuation) +20dBm (with 20dB attenuation). |
| DC | +25V |

| TRACKING GENERATOR (Available in Model ME 5001TG Only) | |
|---|---|
| Output Frequency Range | 150KHz to 1050MHz |
| Output Power Level | -50dBm to +1dBm (In 10dB steps & Fine Control) |
| Output Attenuator | 0 to 40 dB (4 x 10dB steps) |
| Output Attenuator Accuracy | ±1dB |
| Output Flatness | ±1.5dB (150KHz to 1050KHz) |
| Spurious Outputs | |
| Harmonic &Non harmonic Spurs | <20dBc |
| Output Impedance | 50ohms (BNC female) |
| MISCELLANEOUS | |
| AM/Demodulator | Ear Phones, Load Impedance |
| Included Ear Phones | >8ohms |
| Load Impedance | >8ohms |
| GENERAL | |
| Display | CRT 6 inch, 8 x 10div internal Graticule |
| Trace Rotation | Adjustable on Front panel |
| Line Voltage | 220V ±10%, 50 to 60 Hz |
| Power Consumption | Approx. 25W |
| Operating Temp. | +10° to 40° C |
| Protective System | Safety Cass I (IEC 1010-1) |
| Cabinet | 265(w) x 125(H) x 380(D) mm |
| Weight | Approx. 7 kg |
| ACCESSORIES | Instruction Manual, Power Cord |
| OPTIONAL ACCESSORIES | 1. High Impedance(Active FET Probe)<br>2. Magnetic Field Probe<br>3. Electric Field Probe<br>4. Feed-thru Terminator<br>5. 4 AA size Batteries. |





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