



Handheld 3.3GHz Spectrum Analyzer

Model 2650

Data Sheet

2650 is a handheld spectrum analyzer ideal for the evaluation of W-CDMA, CDMA, GSM, PDC, PHS, Wireless LAN, 802.11 and Bluetooth systems. It was designed to be the most cost effective spectrum analyzer for quick and easy high-precision signal measurements.

- Measuring frequency range from 50KHz to 3.3GHz
- Auto tuning function
- Channel power measurements
- Adjacent channel power measurements
- Occupied bandwidth measurements
- Electric field strength measurements
- Magnetic field strength measurements



Frequency Section	
Frequency Range	50KHz to 3.3GHz
Center Frequency	
Setting Resolution	100KHz, Allows rotary encoder, numeric keys and function keys (up and down) for setting CF.
Accuracy	< +(30+100T)KHz @ 200KHz to 10MHz span < +(100+700T)KHz @ 20MHz to 3.3GHz span at 23°C (+5°C), T = sweep time(s)
Frequency Span	
Setting Range	0Hz (zero span), 200KHz to 2GHz (1-2-5 steps) and 3.3GHz (full span)
Accuracy	less than +3% @ 23°C (+5°C)
Resolution Bandwidth	3dB bandwidth
Setting Range	3KHz to 3MHz (1-3 step) and AUTO
Accuracy	less than +20%
Selectivity	1:12 (nominal) @ 3dB:60dB
Video Bandwidth	100Hz to 300KHz (1-3 step), OFF and AUTO
SSB Phase Noise	-90dBc/Hz (typical) @ 100KHz offset
Spurious Response	less than -60dBc
Amplitude Selection	
Reference Level	
Setting Range	+10 to -40dBm in 1dB step
Accuracy	less than +0.8dB @ RBW:3MHz, VBW:OFF, ATT:0dB, 23°C (+5°C)
Unit	dBm, dBV, dBmV, dB mV
Average Noise Level	-110dBm (typical) @ RBW:3KHz, VBW:100Hz
Input Impedance	50W
Input VSWR	less than 2.0
Input Attenuator	
Operating Range	0 to 25dB @ 1dB step coupled with reference level
Switching Error	less than +0.6dB
RBW Switching Error	less than +0.6dB
Display Scale	
Scale	10dB/div, 2dB/div
Accuracy	less than +0.8dB/10dB less than +0.2dB/2dB less than +1.6dB/70dB
Input Damage Level	+23dBm (CW average power), 25VDC
Input Connector	SMA(J)
Sweep Section	
Sweep Time	
Setting Range	10ms to 30s (1-3 step) and AUTO
Accuracy	less than +0.1% (less than +1.5% @ full span)
Trigger Mode	AUTO @ zero span
Detection Mode	Positive peak, Negative peak, sample

Specifications subject to change without notice