

## Data Sheet

2658 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 8.5GHz
- 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 8.5GHz
Center Frequency	
Setting Resolution	100KHz, Allows rotary encoder, numeric keys and function keys (up and down) for setting CF.
Accuracy	< +(30+20T)KHz @ 200KHz to 10MHz span, RBW 30KHz < +(60+300T)KHz @ 20MHz to 8.5GHz span, RBW 100KHz at 23°C (+5°C), T = sweep time(s)
Frequency Span	
Setting Range	0Hz (zero span), 200KHz to 5GHz (1-2-5 steps) and 8.5GHz (full span)
Basic 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 1MHz (1-3 step), and AUTO
SSB Phase Noise	-90dBc/Hz (typical) @ 100KHz offset, RBW 3KHz, VBW 100Hz, Sweep time 0.3s
Spurious Response	less than -60dBc
Harmonics	Less than -40dBc @ 100MHz + 8.5GHz
Amplitude Selection	
Reference Level	
Setting Range	+10 to -60dBm in 1dB step
Accuracy	less than +0.8dB @ RBW:3MHz, VBW:OFF, ATT:0dB, 23°C (+5°C)
Unit	dBm, dBV, dBmV, dBµV, dBµV/m, dBµA/m (dBµV/m and dBµA/m is used in measuring function)
Average Noise Level	-110dBm (typical) @ Center freq. 1GHz, RBW:3KHz, VBW:100Hz
Input Impedance	50
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 ±1dot less than +0.2dB/2dB ±1dot less than +1.6dB/70dB ±1dot
Input Damage Level	+23dBm (CW average power), 25VDC
Input Connector	SMA(J)
Sweep Section	
Sweep Time	
Setting Range	10ms to 30s and AUTO @ Span 0 to 2GHz 30ms to 30s and AUTO @ Span 5GHz 0.1 to 30s and AUTO @ Full span (1-3 step)
Accuracy	within ±0.1%±1dot @Span 0 to 5GHz within ±2.5%±1dot @Full span
Trigger Mode	AUTO @ zero span
Detection Mode	Positive peak, Negative peak, sample