

Specification of 13.6GHz Signal Analyzer

| PARAMETER | SPECIFICATION |
|--|---|
| Frequency Range | 9KHz to 13.6GHz or better |
| Tracking Generator | Tracking generator, 9KHz to 6GHz |
| Reference frequency aging/year | $\pm 1 \times 10E-6$ or better |
| No of Sweep points | 1 to 40001 or better |
| Analysis bandwidth | 10MHz and 25MHz upgradable in future |
| SSB Phase Noise @1GHz | -98 dBc/Hz at 1KHz Offset -106 dBc/Hz at 10KHz Offset -108 dBc/Hz at 100 KHz Offset -130 dBc/Hz at 1MHz Offset or better |
| Sweep time | Span = 0 Hz : 1 μ s to 6000 s Span \geq 10 Hz : 1 ms to 4000 s or better |
| Resolution Bandwidth (-3dB) | 1 Hz to 3MHz or better |
| Video bandwidths | 1 Hz to 3MHz or better |
| Displayed Average Noise Level RF Attenuation = 0 dB, termination = 50ohm | -148 dBm @ 1 GHz -133 dBm @ 6 GHz -139 dBm @ 13.6 GHz or better |
| Trigger | Free run, line, video, external 1, RF burst, periodic timer |
| Trace detector | Normal, peak, sample, negative peak, log power average, RMS average & voltage average |
| Maximum input level | +30dBm (1W), input attenuation \geq 10dB or better |
| TOI | + 11 dB @1GHz +12 dB @6GHz +11dB @13.6GHz |
| Input RF connector | Type N (F) |
| Input SWR | <1.9 or better |
| Vector signal analysis with signal record and playback & Multi Domain analysis with stand alone software | Should measure / display following parameters/graph such as symbol timing errors, filtering errors, DAC overflow, IQ imbalance, Quadrature skew, IQ imbalance, Error vector measurement (EVM), EVM vs Timing, spectrogram, persistence mode for transient capture, Constellation diagram, Bit error rate (BER) measurement for AM,FM, PM, ASK, BPSK, QPSK, QAM, FSK, APSKetc. The software should support standards & amp; modulation types ranging from cellular, IEEE 802 standards, LTE & LTE- Advanved (FDD, TDD), W-CDMA, GSM/EDGE etc. General purpose: Modulation analysis as AM, FM, PM, BPSK, QPSK, QAM, FSK, APSK, OFDM, even customized IQ mapping signals and more. Signal analysis software should be compatible & supported in different domain instruments. Min 15 user license required |
| ADC resolution | 14bits |
| Internal sample memory | \geq 1.5GB |
| Interface | LAN/GPIB/USB |
| Operating system | Windows based operating |
| Operating temperature range | 0 to 55 degree C |

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| Display | 10.6inch or higher |
| Warranty | 3 year onsite Warranty. |
| Accessories | BNC to N type converter - 02 nos, 18inches cable (SMA) 2 nos |
| After sales service | OEM shuld have or arrange service & NABL accredited calibration lab in India. Documentary evidence required. |