

AT6030DM

3.0GHz SPECTRUM ANALYZER

- Frequency range: 9kHz ~ 3.0GHz
- Superior resolution: minimum 100Hz
- Resolution bandwidth: 1k~3MHz, 9kHz, 120kHz
- Wide input dynamic range: -130dBm ~ +20dBm
- Standard pre-Amplifier
- 3.0GHz Tracking Generator (optional)
- CDMA measurement: ACPR, ACLR, OBW, channel power
- Perfectly suitable for mobile communication, RF system, broadcast, EMI/EMC test, etc.

Technical Specifications

Frequency range: 9kHz ~ 3.0GHz

Resolution: min 100Hz

Span range: 100Hz/div ~ 300MHz/div, 1-2-5 step;
0Hz (zero span), 9k~3.0GHz (full span)

Span accuracy: $\pm 3\%$ of indicated span width

Frequency selection: start, stop, center, span setup

Readout accuracy: $\leq \pm$ (indicated freq. x reference freq.
accuracy + span x span accuracy + 5% of RBW)

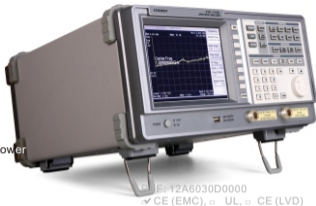
Phase noise: ≤ -100 dBc/Hz (@ 10kHz offset)

Amplitude range: +20dBm ~ -105dBm (Pre Amp off);
+20dBm ~ -130dBm (Pre Amp on)

Amplitude unit: dBm, dBmV, dB μ V, V, mV, μ V, W, mW, μ W

Average noise level (1kHz RBW, 10Hz VBW):
 ≤ -127 dBm (Pre Amp on), 20M~2.7GHz;
 ≤ -130 dBm (Pre Amp on), typically

Reference level: -90dBm ~ +20dBm, 0.1dB step, ± 1.5 dB
second harmonic distortion: ≤ -60 dBc (-40dBm input)
inter-modulation distortion: ≤ -70 dBc (-40dBm input)
Residual spurious: ≤ -85 dBm
Other input spurious: ≤ -60 dBc (-30dBm input)



Resolution bandwidth (RBW):

1k/3k/10k/30k/100k/300k/1M/3M/9k/120kHz, $\pm 20\%$

Video bandwidth (VBW): 10Hz ~ 3MHz, in 1-3-10 step

Sweep: 100ms~1,000s; 40ms~1,000s (zero span), $\pm 20\%$
mode: continuous/single

trigger source: external, video, free run, line

Storage: max. 900 waveforms, 3000 setup states

RF input: 150k~3.0GHz, BNC(F), 50 Ω

max input level: 0Vdc, +20 dBm

VSWR: <1.5:1 (0dBm reference level)

Standard frequency: 10MHz, REF.

stability: ± 0.5 ppm, aging ± 0.5 ppm/year,

Interface: USB host /device, RS-232C, Printer

Optional interface: LAN, GPIB

Display: 640x480 pixels, 6.4 inch TFT color display

Tracking generator (optional):

100kHz~3.0GHz; type-N, 50 Ω

Power: AC 100V~240V, 50~60Hz; 80W

Dimensions & weight: 350x195x370mm, 10kgs