

SA2030/2030D

SPECTRUM ANALYZER

Feature.

- . Frequency range: 9kHz ~ 3GHz
- . Max. input : -100~+13dBm
- . Tracking generator (SA2030D)
- . Output level range: -50~+1dBm (in 10dB steps and var.)



SA2030

Technical data	SA2030/2030D
Frequency range	9kHz~3GHz
Frequency resolution	1Hz
Frequency readout accuracy	$\pm(\text{frequency indication} \times \text{frequency accuracy} + 1\% \text{ span} + 10\% \text{ RBW} + 0.5 \times (\text{span} / (\text{sweep dot} - 1) + 1\text{Hz}))$
Aging rate	< 2ppm/year
Temperature drift	< 1ppm, 15°C~35°C
Bandwidth resolution	10Hz~500kHz, 1MHz, 3MHz
Resolution filter shape factor(60dB:3dB)	< 5:1 nominal (RBW≤500kHz)
RBW accuracy	< 5% nominal
Video bandwidth	10Hz~3MHz, in 1-3-10 sequence
DANL (preamplifier off/on)	100kHz, -90dBm/-110dBm 1MHz, -120dBm/-140dBm 100MHz, -125dBm/-145dBm 500MHz, -125dBm/-145dBm 1000MHz, -122dBm/-140dBm 1.4GHz, -120dBm/-138dBm 1.8GHz, -123dBm/-140dBm 2.2GHz, -121dBm/-138dBm 2.5GHz, -121dBm/-138dBm 3.0GHz, -120dBm/-137dBm
SSB phase noise	-80dBc/Hz (offset: 10kHz) -90dBc/Hz (offset: 30kHz) -115dBc/Hz (offset: 1MHz)
Sweep time range	10ms~ 3000s (100Hz≤span≤1GHz) 1ms~ 3000s (span=0)

Sweep mode	continuous, single	
Frequency counter resolution	1Hz, 10Hz, 100Hz, 1kHz	
Frequency counter accuracy	frequency indication×frequency reference accuracy+frequency counter resolution	
Third order intermod	±1.5dB	
CW RF power	+27dBm	
DC voltage	50VDC	
Input attenuation range	0 to 39 dB (in 3dB step)	
1dB RF attenuation	±7dB	
Third order intermodulation (TOI)	> 30MHz+13dBm	
Second harmonic intercept (SHI)	+30dBm	
Input relate spurious	< -60dBc	
Spurious responses	< -85dBm	
Tracking (SA2030)	Frequency range	100kHz~3GHz
	Output level	-30dBm~0dBm, in 1dB step
	Output flatness	±3dB
RF input	N female, 50Ω	
USB	USB1.1 (H), USB1.1 (D)	
LAN	10/100 Base-T, RJ-45	
RS232	9 pin, D-SUB	
10MHz REF in /out	BNC female (0dBm~+10dBm input power, 0dBm~±2dBm output power)	
VGA	640×480, 60Hz, 15 pin mini D-SUB	
GPIB (optional)	IEEE-488 connector	
AM/FM demodulation	headset jack	
Data storage memory	128MB	
Display screen	6.5" TFT-LCD	
Power source	110~220VAC±15%, 50Hz~60Hz, 20VA	
Dimensions(W×H×D)	330×163×165 mm	
Weight	4kg	