CXA X-Series Signal Analyzer, Multi-touch N9000B

9 kHz to 3.0, 7.5, 13.6, or 26.5 GHz

KEYSIGHT Input: RF Coupling: AC Align: Auto	Input Z: 50 0. Atten: 10 dB Trig: Free Run Center Freq: 1.920000000 GHz Corrections: Off Preamp: Off Gele: Off Avg/Hold.>100/100 Freq Ret: Fat(S) LUP: Net Enabled IF Gein: Low Radio Skt WCDMA, BTS		AMPTD BW Trace Recall P
1 Graph +	NFE: Off PNO: Best Wide Noise Correction: Cn		SWEEP Trigger Unput Save Si
Scale/Div 10.0 dB	Ref Value -10.00 dBm		MODE/ MEAS SETUP Display Quick Save
-30.0 -40.0 -50.0	-73.7 dB; -73.9	dBc -75,9 dBc	
-60.0 -70.0 -80.0			
-90.0 -100 Pro-	#Video BW 1.0000 MHz*	Span 24.68 MHz	Enter
#Res BW 100 kHz	ANDRO PINITONO MILE-	Span 24.66 MHZ #Sweep Time 29.0 ms (1001 pts)	
Total Car Pwr -9.958 dBm/ Total PSD	3.840 MHz		7 8 9 Bk Sp Cano test
IOM PSU	Lower Upper	ef Carrier	4 5 6 Del Tab
A	Offs Freq Integ BW dBc dBm dBm Car # dBc dBm dE 5.000 MHz 3.840 MHz -73.67 -83.63 -9.958 1 -73.92 -83.87 -9:	m Car# Filter 958 1 ON	
В	10.00 MHz 3.840 MHz -76.05 -86.01 -9.958 1 -75.85 -85.81 -9:	958 1 ON	
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Leading low-cost tool

The CXA is today's leading low-cost tool for essential signal characterization. Its capabilities provide a solid foundation for cost-effective testing in general-purpose and educational applications.

This data sheet is a summary of the specifications and conditions for CXA signal analyzers. For the complete specifications guide, visit www.keysight.com/find/cxa_specifications

Definitions and Conditions

Specifications describe the performance of parameters covered by the product warranty and apply to temperature ranges 0 to 55 °C, unless otherwise noted.

95th percentile values indicate the breadth of the population (approx. 2σ) of performance tolerances expected to be met in 95 percent of the cases with a 95 percent confidence, for any ambient temperature in the range of 20 to 30 °C. In addition to the statistical observations of a sample of instruments, these values include the effects of the uncertainties of external calibration references. These values are not warranted. These values are updated occasionally if a significant change in the statistically observed behavior of production instruments is observed.

Typical describes additional product performance information that is not covered by the product warranty. It is performance beyond specifications that 80 percent of the units exhibit with a 95 percent confidence level over the temperature range 20 to 30 °C. Typical performance does not include measurement uncertainty.

Nominal values indicate expected performance, or describe product performance that is useful in the application of the product, but are not covered by the product warranty.

The analyzer will meet its specifications when:

- It is within its calibration cycle
- Under auto couple control, except when Auto Sweep Time Rules = Accy
- The analyzer has been stored at an ambient temperature within the allowed operating range for at least two hours before being turned on; if it had previously been stored at a temperature range inside the allowed storage range, but outside the allowed operating range
- The analyzer has been turned on at least 30 minutes with Auto Align set to Normal, or, if Auto Align is set to Off or Partial, alignments must have been run recently enough to prevent an Alert message. If the Alert condition is changed from "Time and Temperature" to one of the disabled duration choices, the analyzer may fail to meet specifications without informing the user. If Auto Align is set to Light, performance is not warranted, and nominal performance will degrade to become a factor of 1.4 wider for any specification subject to alignment, such as amplitude tolerances.

For ordering information, refer to the CXA Signal Analyzer Configuration Guide (5992-1275EN).

For more information

This CXA signal analyzer data sheet is a summary of the complete specifications and conditions for N9000B CXA signal analyzers, which are available in the CXA Signal Analyzer Specification Guide. The CXA Signal Analyzer Specification Guide can be obtained on the web at:

www.keysight.com/find/ cxa_specifications

Frequency and Time Specifications

Frequency range	DC coupled		AC coupled
Dption 503	NA .		9 kHz to 3.0 GHz
Dption 507	NA		9 kHz to 7.5 GHz
Dption 513	9 kHz to 13.6 GHz		10 MHz to 13.6 GHz
Dption 526	9 kHz to 26.5 GHz		10 MHz to 26.5 GHz
	Band	LO multiple (N)	AC coupled
RF (Option 503, 507)	0	1	9 kHz to 3.0 GHz
	1	1	2.95 to 3.80 GHz
	2	1	3.70 to 4.55 GHz
	3	1	4.45 to 5.30 GHz
	3 4	1	5.20 to 6.05 GHz
	5	1	5.95 to 6.80 GHz
	6	1	6.70 to 7.50 GHz
	Band	LO multiple (N)	AC coupled
/W (Option 513, 526)	0	1	9 kHz to 3.08 GHz
(option 010, 020)	1	2	2.95 to 7.58 GHz
	2	2	7.45 to 9.55 GHz
	3	2	9.45 to 12.60 GHz
	4	2	12.50 to 13.05 GHz
		4	12.95 to 13.80 GHz
	4 5 6 7	4	13.40 to 15.55 GHz
	6	4	15.45 to 19.35 GHz
	7	4	19.25 to 21.05 GHz
		4	20.95 to 22.85 GHz
	8 9	4	20.95 to 22.05 GHz
	10	4	24.15 to 26.55 GHz
requency reference	10	4	24.13 10 20.33 GHZ
Accuracy	. [/time since last adjust	nont v oging rota) i tamporati	ure stability + calibration accuracy]
	Option PFR	nent x aying rate) + temperatt	Standard
Aging rate	± 1 x 10 ⁻⁷ / year		$\pm 1 \times 10^{-6}$ / year
	-		± 1 x 10 - 7 year
emperature stability	± 1.5 x 10 ⁻⁷ / 2 years Option PFR		Standard
20 to 30 °C	± 1.5 x 10 ⁻⁸		$\pm 2 \times 10^{-6}$
Full temperature range	$\pm 1.5 \times 10^{-8}$		$\pm 2 \times 10^{-6}$
-			
Achievable initial calibration accuracy	Option PFR		Standard
	± 4 x 10 ⁻⁸	(10 %)	± 1.4 x 10 ⁻⁶
Example frequency reference accuracy (with	$= \pm (1 \times 1 \times 10^{-7} + 5 \times 10^{-8})$	+ 4 X 10 ^{-o})	
Option PFR)	$= \pm 1.9 \times 10^{-7}$		
year after last adjustment			
Residual FM			
Option PFR	≤ 0.25 Hz p-p in 20 ms no		
Standard	≤ 10 Hz p-p in 20 ms nom	ninal	
requency readout accuracy (start, stop, cen			1 1 1 1 1 41
t (marker frequency x frequency reference a	accuracy + 0.25 % x span +	5 % x RBW + 2 Hz + 0.5 x ho	orizontal resolution ')
Marker frequency counter	1		
Accuracy	1 3	quency reference accuracy +	
Delta counter accuracy		iency reference accuracy + 0.	141 Hz)
Counter resolution	0.001 Hz		

1. Horizontal resolution is span/(sweep points – 1).

Frequency and Time Specifications (continued)

Range	0 Hz (zero span), 10 Hz to maximum frequency of	instrument
Resolution	2 Hz	
Accuracy	Z 11Z	
Swept	± (0.25 % x span + horizontal resolution)	
FFT	\pm (0.10 % x span + horizontal resolution)	
Sweep time and triggering		
Range	Span = 0 Hz	1 μs to 6000 s
Nuligo	Span \ge 10 Hz	1 ms to 4000 s
Accuracy	Span ≥ 10 Hz, swept	± 0.01 % nominal
	Span ≥ 10 Hz, FFT	± 40 % nominal
	Span = 0 Hz	± 1 % nominal
Trigger	Free run, line, video, external 1, RF burst, periodic	
Trigger delay	Span = 0 Hz or FFT	–150 to +500 ms
	Span ≥ 10 Hz, swept	1 μs to 500 ms
	Resolution	0.1 μs
Time gating		
Gate methods	Gated LO; gated video; gated FFT	
Gate length range (except method = FFT)	100.0 ns to 5.0 s	
Gate delay range	0 to 100.0 s	
Gate delay jitter	33.3 ns p-p nominal	
Sweep (trace) point range		
All spans	1 to 40001	
Resolution bandwidth (RBW)		
Range (-3.01 dB bandwidth)	1 Hz to 3 MHz (10 % steps), 4, 5, 6, 8 MHz	
Bandwidth accuracy (power)	1 Hz to 750 kHz	± 1.0 % (± 0.044 dB) nominal
	820 kHz to 1.2 MHz (< 3 GHz CF)	± 2.0 % (± 0.088 dB) nominal
	1.3 to 2.0 MHz (< 3 GHz CF)	± 0.07 dB nominal
	2.2 to 3 MHz (< 3 GHz CF)	± 0.15 dB nominal
	4 to 8 MHz (< 3 GHz CF)	± 0.25 dB nominal
Bandwidth accuracy (–3.01 dB)	1 Hz to 1.3 MHz	± 2 % nominal
RBW range		
Selectivity (–60 dB/–3 dB)	4.1:1 nominal	
EMI bandwidth (CISPR compliant)	200 Hz, 9 kHz, 120 kHz, 1 MHz	(Option EMC required)
EMI bandwidth (MIL STD 461E compliant)	10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz, 1 MHz	(Option EMC required)
Analysis bandwidth ¹		
Maximum bandwidth	Option B25	25 MHz
	Standard	10 MHz
Video bandwidth (VBW)		
Range	1 Hz to 3 MHz (10 % steps), 4, 5, 6, 8 MHz, and wi	de open (labeled 50 MHz)
Accuracy	±6% nominal	
Measurement speed ²		
Local measurement and display update rate	11 ms (90/s) nominal	
Remote measurement and LAN transfer rate	6 ms (167/s) nominal	
Marker peak search	5 ms nominal	
Center frequency tune and transfer	22 ms nominal	
Measurement/mode switching	75 ms nominal	

Analysis bandwidth is the instantaneous bandwidth available around a center frequency over which the input signal can be digitized for further analysis or processing in the time, frequency, or modulation domain.
 Sweep points = 101.

Amplitude Accuracy and Range Specifications

Amplitude range				
Measurement range				
RF (Option 503, 507)	Preamp off	100 kHz to 1 MHz	Displayed average noise level (DANL) to +20 dBm	
		1 MHz to 7.5 GHz	Displayed average noise level (DANL) to +23 dBm	
	Preamp on	100 kHz to 7.5 GHz	Displayed average noise level (DANL) to +15 dBm	
MW (Option 513/526)	Preamp off	100 kHz to 26.5 GHz	Displayed average noise level (DANL) to +23 dBm	
	Preamp on	100 kHz to 26.5 GHz	Displayed average noise level (DANL) to +23 dBm	
Input attenuator range				
RF (Option 503, 507)	Standard	0 to 50 dB in 10 dB ste	eps	
	Option FSA	0 to 50 dB in 2 dB step	DS	
MW (Option 513, 526)	Standard	0 to 70 dB in 10 dB steps		
	Option FSA	0 to 70 dB in 2 dB step	DS	
Maximum safe input level				
Average total power				
RF (Option 503, 507)	+30 dBm (1 W)	Input attenuation ≥ 20) dB, preamp off	
	10 dBm (10 mW)	Input attenuation ≥ 20) dB, preamp on	
MW (Option 513, 526)	+30 dBm (1 W)	Input attenuation ≥ 10) dB, preamp off	
	+30 dBm (1 W)	Input attenuation ≥ 20) dB, preamp on	
Peak pulse power				
	+50 dBm (100 W)	< 10 µs pulse width, <	1 % duty cycle, input attenuation ≥ 30 dB	
DC volts				
RF (Option 503, 507)	AC coupled	± 50 Vdc		
MW (Option 513, 526)	AC coupled	± 50 Vdc		
	DC coupled	± 0.2 Vdc		
Display range				
Log scale	0.1 to 1 dB/division in	0.1 dB steps		
	1 to 20 dB/division in	1 dB steps (10 display divis	ions)	
Linear scale	10 divisions			
Scale units	dBm, dBmV, dBµV, dB	3mA, dBμA, V, W, A		
Frequency response		Specification	95th percentile ($\approx 2\sigma$)	
(10 dB input attenuation, 20 to 30	°C, σ = nominal standard deviation	on)		
RF (Option 503, 507)	9 kHz to 10 MHz	± 0.60 dB	± 0.45 dB	
	10 MHz to 3 GHz	± 0.75 dB	± 0.55 dB	
	3 to 5.25 GHz	± 1.45 dB	± 1.00 dB	
	5.25 to 7.5 GHz	± 1.65 dB	± 1.20 dB	
MW (Option 513, 526)	9 kHz to 10 MHz	± 0.8 dB	± 0.5 dB	
	10 MHz to 3 GHz	± 0.65 dB	± 0.4 dB	
	3 to 7.5 GHz	± 1.5 dB	± 0.5 dB	
	7.5 to 13.6 GHz	± 2.0 dB	± 0.8 dB	
	13.6 to 19 GHz	± 2.0 dB	± 1.0 dB	
	19 to 26.5 GHz	± 2.5 dB	± 1.3 dB	
Preamp on				
RF (Option 503, 507)	100 kHz to 3 GHz		± 0.70 dB	
(P03, P07)	3 to 5.25 GHz		± 0.85 dB	
	5.25 to 7.5 GHz		± 1.35 dB	
MW (Option 513, 526)	100 kHz to 3 GHz		± 0.7 dB	
(P03, P07, P13, P26)	3 to 13.6 GHz		± 1.0 dB	
	13.6 to 19 GHz		± 1.1 dB	
	19 to 26.5 GHz		± 2.5 dB	

Amplitude Accuracy and Range Specifications (continued)

Input attenuation switching uncertainty		Specifications	Additional information
Attenuation > 2 dB, preamp off	50 MHz (reference frequency)	± 0.32 dB	± 0.15 dB typical
Relative to 10 dB	100 kHz to 3.0 GHz		± 0.30 dB nominal
(reference setting)	3.0 to 7.5 GHz		± 0.50 dB nominal
	7.5 to 26.5 GHz		± 0.70 dB nominal
Total absolute amplitude accuracy			
(10 dB attenuation, 20 to 30 °C, 1 Hz ≤ RBV	V ≤ 1 MHz, input signal –10 to –50	dBm, all settings auto	o-coupled except
Auto Swp Time = Accy, any reference level	, any scale, σ = nominal standard	deviation)	
	At 50 MHz	± 0.40 dB	
	At all frequencies	± (0.40 dB + frequen	cy response)
	100 kHz to 10 MHz	± 0.60 dB (95th Perc	entile $\approx 2\sigma$)
	10 MHz to 2.0 GHz	± 0.50 dB (95th Perc	entile $\approx 2\sigma$)
	2.0 to 3.0 GHz	± 0.60 dB (95th Perc	
Preamp on		± (0.39 dB + frequen	cy response) nominal
(Option P03/P07/P13/P26)			
Input voltage standing wave ratio (VSWR) (2	10 dB attenuation)		
		Option 503, 507	Option 513, 526
	10 MHz to 3 GHz	< 1.5 nominal	< 1.3 nominal
	3 to 7.5 GHz	< 2.0 nominal	< 1.4 nominal
	7.5 to 26.5 GHz	N/A	< 1.9 nominal
Resolution bandwidth switching uncertainty	y (referenced to 30 kHz RBW)		
1 Hz to 3 MHz RBW	± 0.15 dB		
4, 5, 6, 8 MHz RBW	± 1.0 dB		
Reference level			
Range			
Log scale	–170 to +23 dBm in 0.01 dB ste	ps	
Linear scale	Same as log (707 pV to 3.16 V)		
Accuracy	0 dB		
Display scale switching uncertainty			
Switching between linear and log	0 dB		
Log scale/div switching	0 dB		
Display scale fidelity			
–80 dBm ≤ input mixer level	± 0.15 dB total		
< –15 dBm			
–15 dBm ≤ input mixer level	± 0.30 dB	± 0.15 dB typical	
< -10 dBm			
Trace detectors			
Normal, peak, sample, negative peak, log powe	er average, RMS average, and voltage	e average	
Preamplifier (Option P03/P07/P13/P26)			
Frequency range	Option P03	100 kHz to 3.0 GHz	
	Option P07	100 kHz to 7.5 GHz	
	Option P13	100 kHz to 13.6 GHz	
	Option P26	100 kHz to 26.5 GHz	
Gain	100 kHz to 26.5 GHz	+20 dB nominal	
Noise figure	100 kHz to 26.5 GHz	DANL + 176.24 dB n	aminal

Dynamic Range Specifications

	1 dB gain compression (two	-tone)	Total power at inp	ut mixer
RF (Option 503, 507)	Preamp off	50 MHz to 7.5 GHz	+2 dBm nominal	
	Preamp on	50 MHz to 7.5 GHz	–19 dBm nominal	
MW (Option 513/526)	Preamp off	50 MHz to 7.5 GHz	+7 dBm noiminal	
	·	7.5 to 13.6 GHz	+3 dBm noiminal	
		13.6 to 26.5 GHz	+0 dBm noiminal	
	Preamp on	50 MHz to 26.5 GHz	–19 dBm nominal	
Displayed average noise level (DANL)	1			
nput terminated, sample or average d	etector, averaging type = Log, 0 dB	input attenuation, IF Gain = H	igh, 20 to 30 °C)	
		Parentheses indicate typical performance		
		Preamplifier OFF	Preamplifier ON	
RF (Option 503/507)	9 kHz to 1 MHz	(–120) dBm	(–139) dBm, 100 k⊦	Iz to 1 MHz
	1 to 10 MHz	–130 (–137) dBm	–149 (–157) dBm	
	10 MHz to 1.5 GHz	–148 (–150) dBm	–161 (–163) dBm	
	1.5 to 2.2 GHz	–144 (–147) dBm	–160 (–163)dBm	
	2.2 to 2.5 GHz	–144 (–147) dBm	–158 (–161) dBm	
	2.5 to 2.7GHz	–142 (–145) dBm	–158 (–161) dBm	
	2.7 to 3.0 GHz	–139 (–143) dBm	–158 (–161) dBm	
	3 to 4.5 GHz	–137 (–140) dBm	–155 (–159) dBm	
	4.5 to 6 GHz	–133 (–136) dBm	–152 (–156) dBm	
	6 to 7.5 GHz	–128 (–131) dBm	–148 (–152) dBm	
IW (Option 513/526)	1 to 10 MHz	–143 (–148) dBm	–153 (–158) dBm	
(option 513/520)	10 MHz to 1.5 GHz	–147 (–150) dBm	–160 (–163) dBm	
	1.5 to 6 GHz	–143 (–147) dBm	–158 (–161) dBm	
	6 to 7.5 GHz	–141 (–145) dBm	–155 (–160) dBm	
	7.5 to 13.6 GHz	–139 (–142) dBm	–155 (–160) dBm	
	13.6 to 20 GHz	–134 (–140) dBm	–153 (–157) dBm	
	20 to 24 GHz	–132 (–138) dBm	–151 (–155) dBm	
	24 to 26.5 GHz	–124 (–129) dBm	–142 (–147) dBm	
purious responses	24 to 20.5 GHz	-124 (-123) udili	-142 (-147) ubili	
F (Option 503, 507)	Residual responses	200 kHz to 7.5 GHz (swept)	–90 dBm	
r (Option 505, 507)	(Input terminated and 0 dB	Zero span or FFT or other	–100 dBm nominal	
	attenuation, 20 to 30 °C)	frequencies	- IUU UDIII IIUIIIIIat	
	Input related spurious	10 MHz to 7.5 GHz	–60 dBc typical	
1W (Option 513, 526)	Input related spurious		Mixer level	Deepenee
100 (Option 513, 526)		Tuned frequency (f) 10 MHz to 26.5 GHz	–10 dBm	Response –60 dBc typical
	Image responses			
	LO-related spurious	10 MHz to 3 GHz	–10 dBm	–64 dBc typical
	Other spurious responses		10 dD	
	First RF order		–10 dBm	-65 dBc
	(f ≥ 10 MHz from carrier)		20 dDm	
	High RF order		–30 dBm	-65 dBc
	(f ≥ 10 MHz from carrier)			
econd harmonic distortion (SHI)	0	0111/ 1 11		
	Source frequency	SHI (nominal)		
RF/MW (Option 503, 507, 513, 526)	10 MHz to 3.75 GHz	+42 dBm		
MW (Option 513, 526)	3.75 to 13.25 GHz	+54 dBm		

Dynamic Range Specifications (continued)

Parentheses indicate t	ypical performance			
RF (Option 503, 507)	Preamp off		10 to 400 MHz	+10 (+14) dBm
	(Two –20 dBm tones at input mi	xer spaced by	400 MHz to 3 GHz	+13 (+17) dBm
	100 kHz, 0 dB attenuation, 20 to	o 30 °C)	3 to 7.5 GHz	+13 (+15) dBm
MW (Option 513/526)	Preamp off		10 to 500 MHz	+11 dBm, (+15) dBm
	(Two –20 dBm tones at input mi	xer spaced by	500 MHz to 2 GHz	+12 dBm, (+15) dBm
	100 kHz, 0 dB attenuation, 20 to	o 30 °C)	2 to 3 GHz	+11 dBm, (+15) dBm
			3 to 7.5 GHz	+12 dBm, (+17) dBm
			7.5 to 13.6 GHz	+11 dBm, (+15) dBm
			13.6 to 26.5 GHz	+10 dBm, (+14) dBm
Option P03/P07/P13/	Preamp on		10 MHz to 26.5 GHz	–8 dBm nominal
P26	(Two –45 dBm tones at the prea 100 kHz, 0 dB attenuation, 20 to			
Phase noise	Offset	Specificati	on	Typical
Noise sidebands (20 to	o 30 °C, CF = 1 GHz)			
	1 kHz	-98 dBc/H	Ζ	–103 dBc/Hz
	10 kHz	–106 dBc/H	lz	–110 dBc/Hz
	100 kHz	–108 dBc/H	lz	–110 dBc/Hz
	1 MHz	–130 dBc/H	lz	–130 dBc/Hz
	10 MHz			–145 dBc/Hz nominal

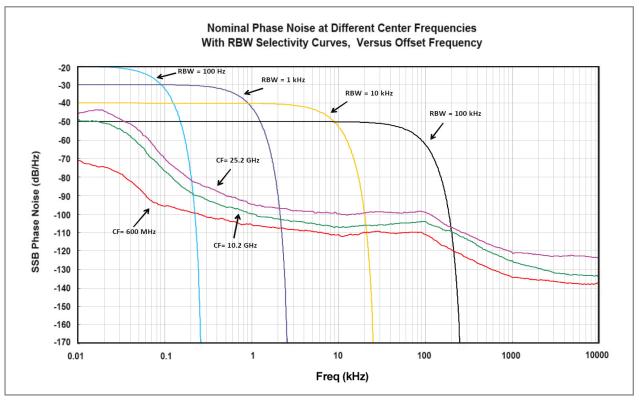


Figure 1. Nominal phase noise at different center frequencies for CXA

PowerSuite Measurement Specifications

Channel power			
Amplitude accuracy, W-CDMA or IS95	± 1.33 dB (± 0.61 dB 95th per	centile)	
(20 to 30 °C, attenuation = 10 dB)			
Occupied bandwidth			
Frequency accuracy	± [span/1000] nominal		
Adjacent channel power			
Accuracy, W-CDMA (ACLR)		Adjacent	Alternate
(at specific mixer levels and ACLR ranges)			
MS		± 0.76 dB	± 0.73 dB
BTS		± 1.72 dB	± 1.96 dB
Dynamic range (typical)			
RF (Option 503, 507)	Without noise correction	-63 dB	-67 dB
	With noise correction	–73 dB	–78 dB
MW (Option 513, 526)	Without noise correction	–66 dB	-69 dB
	With noise correction	–73 dB	–78 dB
Offset channel pairs measured	1 to 6		
Power statistics CCDF			
Histogram resolution	0.01 dB		
Harmonic distortion			
Maximum harmonic number	10th		
Results	Fundamental power (dBm), re	lative harmonics power (dBc), to	otal harmonic distortion in %
Intermod (TOI)			
	Measure the third-order prod	ucts and intercepts from two to	nes
Burst power			
Methods	Power above threshold, powe		
Results	Single burst output power, av	erage output power, maximum p	oower, minimum power within burst, burst width
Spurious emission			
W-CDMA (1 to 2.7 GHz) table-driven sp		-	
Dynamic range (RBW=1 MHz)	70.7 dB	(75.9 dB typical)	
Absolute sensitivity (RBW=1 MHz)	–76.5 dBm	(–82.5 dBm typical)	
Spectrum emission mask (SEM)			
cdma2000® (750 kHz offset)			
Relative dynamic range (30 kHz RBW)	67.4 dB	(72.7 dB typical)	
Absolute sensitivity	–93.7 dBm	(–99.7 dBm typical)	
Relative accuracy	± 0.11 dB		
3GPP W-CDMA (2.515 MHz offset)			
Relative dynamic range (30 kHz RBW)	73.4 dB	(80.2 dB typical)	
Absolute sensitivity	–91.7 dBm	(–97.7 dBm typical)	
Relative accuracy	± 0.11 dB		

Tracking Generator Specifications

Output frequency		
Frequency range		
Option T03 ¹	9 kHz to 3 GHz	
Option T06 ¹	9 kHz to 6 GHz	
Resolution	1 Hz	
Output power level		
Range	–50 to 0 dBm	
Resolution	0.1 dB	
Absolute accuracy	± 0.55 dB	
(at 50 MHz, –10 dBm, 20 to 30 °C)		
Output flatness	Specification	95th percentile (≈ 2 σ)
(referenced to 50 MHz, –10 dBm, 20 to 30 °C)		
9 kHz to 100 kHz	± 1.5 dB	± 1.2 dB
100 kHz to 3.0 GHz	± 1.2 dB	± 0.8 dB
3.0 GHz to 6.0 GHz	± 1.5 dB	± 1.2 dB
Level accuracy		
9 kHz to 100 kHz		± 1.0 dB nominal
100 kHz to 3.0 GHz		± 0.5 dB nominal
3.0 GHz to 6.0 GHz		± 0.8 dB nominal
Output power sweep		
Range	–50 to 0 dBm	
Resolution	0.1 dB	
Maximum safe reverse level		
Average total power	+30 dBm (1 W)	
AC coupled	± 50 Vdc	
Phase noise		
Noise sidebands (CF = 1 GHz)	Offset	
	10 kHz	–102 dBc/Hz nominal
	100 kHz	–104 dBc/Hz nominal
	1 MHz	–117 dBc/Hz nominal
Spurious outputs (0 dBm output)		
Harmonic spurs		
100 kHz to 3 GHz	< -35 dBc	
3 GHz to 6 GHz	< -30 dBc	
Non-harmonic spurs		
9 kHz to 10 MHz		< –35 dBc nominal
10 MHz to 6 GHz	< -35 dBc	
Dynamic range		
	Maximum output power – displayed average noise level	110 dBc nominal
Output VSWR		
9 kHz to 6 GHz	< 1.5:1 nominal	

1. Not available on microwave CXA (Option 513 or 526).

General Specifications

Temperature range		
	0 to 55 °C	
Operating		
Storage	–40 to 70 °C	
EMC		
Complies with European EMC Directive 20		
- IEC/EN 61326-1 or IEC/EN 61326-2-	.1	
 CISPR Pub 11 Group 1, class A 		
 AS/NZS CISPR 11:2002 		
– ICES/NMB-001		
This ISM device complies with Canadian I		
Cet appareil ISM est conforme à la norme	NMB-001 du Canada	
Safety		
Complies with European Low Voltage Dire	ctive 73/23/EEC, amended by 93/68/EE	C
 IEC/EN 61010-1 2nd Edition 		
 Canada: CSA C22.2 No. 61010-1 		
 USA: UL 61010-1 2nd Edition 		
Audio noise		
Acoustic noise emission	Geraeuschemission	
LpA < 70 dB	LpA < 70 dB	
Operator position	Am Arbeitsplatz	
Normal position	Normaler Betrieb	
Per ISO 7779	Nach DIN 45635 t.19	
Environmental stress Samples of this product have been type te	ested in accordance with the Keysight Env	vironmental Test Manual and verified to be robust against the environ-
Environmental stress Samples of this product have been type te	ested in accordance with the Keysight Env n, and end-use; those stresses include, bu	ut are not limited to, temperature, humidity, shock, vibration, altitude,
Environmental stress Samples of this product have been type te mental stresses of storage, transportation and power line conditions; test methods a	ested in accordance with the Keysight Env n, and end-use; those stresses include, bu	ut are not limited to, temperature, humidity, shock, vibration, altitude, re similar to MILPRF-28800F Class 3.
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The recommended calibration cycle is one year; calibration services are available through Keysight service centers

Inputs and Outputs

Front panel	
RF input	
Connector	Type-N female, 50 Ω nominal
RF output (Option T03 or T06)	
Connector	Type-N female, 50 Ω nominal
Probe power	
Voltage/current	+15 Vdc, ± 7 % at 150 mA max. nominal
0	–12.6 Vdc, ± 10 % at 150 mA max. nominal
USB ports	
Host (3 ports)	
Standard	Compatible with USB 2.0
Connector	USB Type-A female
Output current	
Port marked with lightning bolt	1.2 A (nominal)
Port not marked with lightning bolt	0.5 A
Rear panel	
10 MHz out	
Connector	BNC female, 50 Ω nominal
Output amplitude	≥ 0 dBm nominal
Frequency	10 MHz ± (10 MHz x frequency reference accuracy)
Ext Ref In	
Connector	BNC female, 50 Ω nominal
Input amplitude range	–5 to 10 dBm nominal
Input frequency	10 MHz ± nominal
Frequency lock range	\pm 5 x 10 ⁻⁶ of specified external reference input frequency
Trigger 1 input	
Connector	BNC female
Impedance	> 10 kΩ nominal
Trigger level range	–5 to 5 V
Trigger 1 output	
Connector	BNC female
Impedance	50 Ω nominal
Level	5 V TTL nominal
Monitor output	
Connector	VGA compatible, 15-pin mini D-SUB
Format	XGA (60 Hz vertical sync rates, non-interlaced) Analog RGB
Resolution	1024 x 768
Noise source drive +28 V (pulsed)	
Connector	BNC female
SNS Series noise source	
Analog out	
Connector	BNC female

Inputs and Outputs (continued)

USB ports			
Host, super speed	2 ports (stacked with each other)		
Standard	Compatible with USB 3.0		
Connector	USB Type-A female		
Output current	0.9 A		
Host	1 port (stacked with LAN)		
Standard	USB 2.0		
Connector	USB Type-A female		
Output current	0.5 A		
Device			
Standard	Compatible with USB 3.0		
Connector	USB Type-B female		
GPIB interface			
Connector	IEEE-488 bus connector		
GPIB codes	SH1, AH1, T6, SR1, RL1, PP0, DC1, C1, C2, C3, C28, DT1, L4, C0		
GPIB mode	Controller or device		
Rear panel (continued)			
LAN TCP/IP interface			
Standard	1000Base-T		
Connector	RJ45 Ethertwist		
Sync (reserved for future use)			
Connector	BNC female		
IF output			
Connector	SMA female		
Impedance	50 Ω nominal		
Wideband IF output, Option CR3 ¹			
Center frequency			
SA mode or I/Q analyzer	322.5 MHz		
Conversion gain	–4 to +7 dB (nominal) plus RF frequency response		
Bandwidth			
Low band	Up to 120 MHz (nominal)		
High band	Up to 40 MHz (nominal)		

1. Not available on microwave CXA (Option 513 or 526).

I/Q Analyzer

Frequency					
Frequency span					
Standard instrument	10 Hz to 10 MHz				
Option B25	10 Hz to 25 MHz				
Resolution bandwidth (spectrum m					
Range					
Overall	100 mHz to 3 MHz				
Span = 1 MHz	50 Hz to 1 MHz				
Span = 10 kHz	1 Hz to 10 kHz				
Span = 100 Hz	100 mHz to 100 Hz				
Window shapes					
•	, Blackman, Blackman-Harris, Kaiser	Bassal (K. B. 70 dB. K. B. 90 dB and k	(R 110 dR)		
Analysis bandwidth	, Diackman, Diackman-Harris, Raiser				
Standard instrument	10 Hz to 10 MHz				
Option B25	10 Hz to 25 MHz				
IF frequency response (standard 10					
	on and FFT response relative to the	center frequency 20 to 20 °C)			
Center frequency (GHz)	Span (MHz)	Max. error	RMS (nominal)		
	≤ 10	± 0.40 dB	0.03 dB		
3.0 < f ≤ 26.5	<u>≤ 10</u> ≤ 10	± 0.40 dB	0.25 dB		
F phase linearity (deviation from n		± 0.40 dB	0.25 00		
Center frequency (GHz)	Span (MHz)	Dook to pook	RMS		
	≤ 10	Peak-to-peak 0.5 °	0.2 °		
<u>≤ 3.0</u> 3.0 < f ≤ 7.5	<u>≤ 10</u> ≤ 10	2.7 °	<u> </u>		
7.5 < f ≤ 26.5	<u>≤ 10</u> ≤ 10	2.7 1.5 °	0.4 °		
		1.5	0.4		
Data acquisition (standard 10 MHz I	•				
Time record length		4,000,000 IQ sample pairs			
Sample rate		30 MSa/s			
ADC resolution	14 Bits				
Option B25 25 MHz analysis bandw		00 to 00 %0			
	on and FFT response relative to the				
Center frequency (GHz)	Span (MHz)	Max. error	RMS (nominal)		
<u>≤ 3.0</u>	10 to ≤ 25	± 0.45 dB	0.03 dB		
3.0 < f ≤ 26.5	10 to ≤ 25	± 0.45 dB	0.65 dB		
F phase linearity (deviation from n		Dealet	DMC		
Center frequency (GHz)	Span (MHz)	Peak-to-peak	RMS		
$0.02 \le f \le 3.0$	10 to ≤ 25	2.7 °	0.9 °		
3.0 < f ≤ 7.5	10 to ≤ 25	4.7 °	2.2 °		
7.5 < f ≤ 26.5	10 to ≤ 25	3.5 °	1.0 °		
Data acquisition (B25 IF path)					
Time record length	(000 000 10				
IQ analyzer		4,000,000 IQ sample pairs			
Sample rate	90 MSa/s				
ADC resolution	14 Bits				

Related Literature

Literature	Pub number
CXA Signal Analyzer N9000B - Configuration Guide	5992-1275EN
X-Series Signal Analyzers - Brochure	5992-1316EN

For more information or literature resources please visit the web: www.keysight.com/find/cxa

Web

Product page: www.keysight.com/find/N9000B

X-Series measurement applications: www.keysight.com/find/X-Series_Apps

X-Series signal analyzers: www.keysight.com/find/X-Series

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Learn more at: www.keysight.com

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