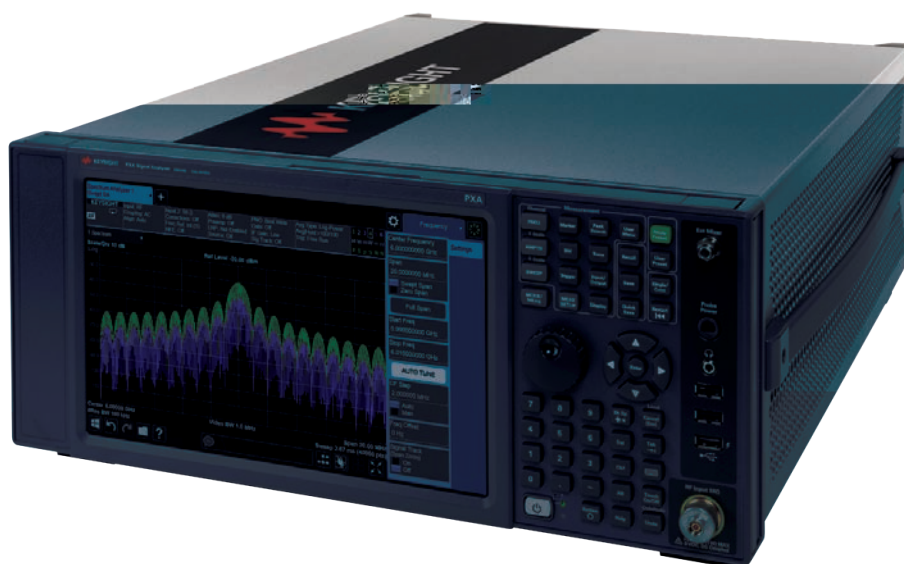


PXA X

N9030B

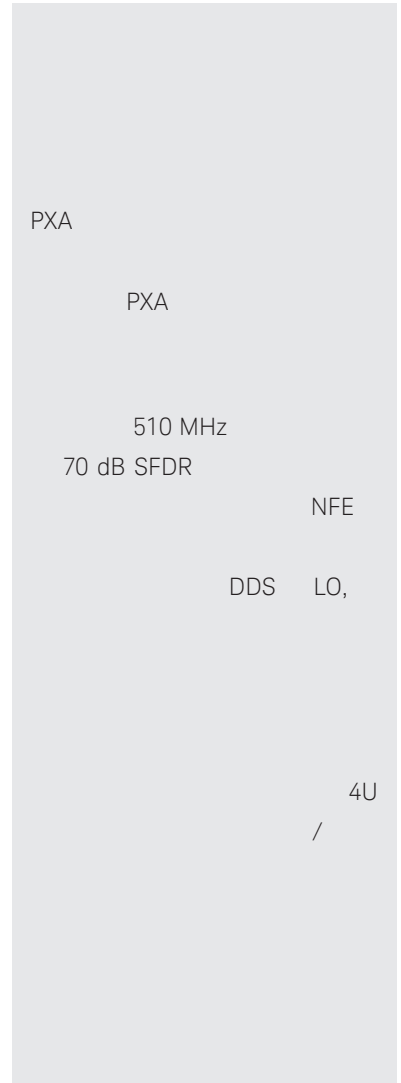
3 Hz 3.6 8.4 13.6 26.5 44 50 GHz

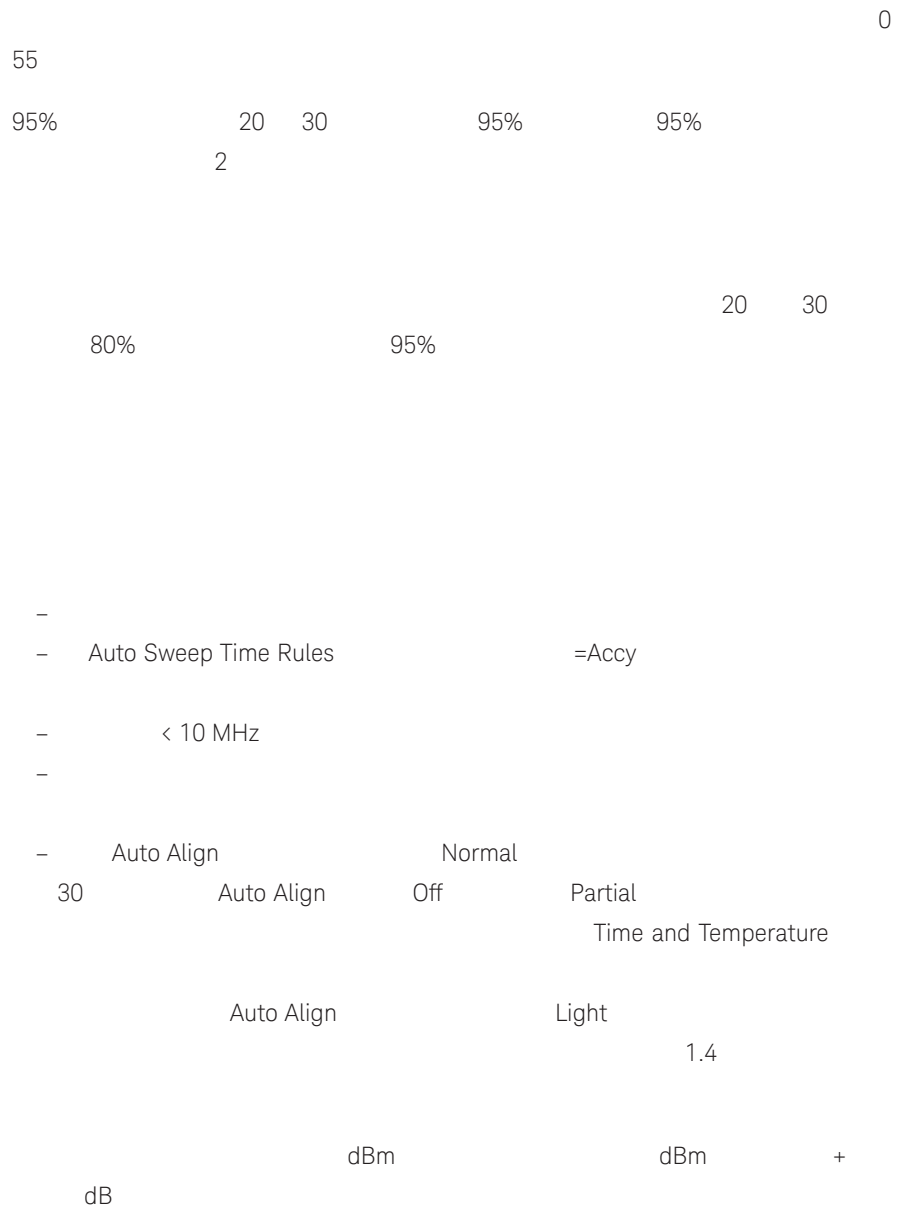


3
 4
 6
 9
 PowerSuite 15
 16
 17
 20
 I/Q 21
 I/Q B40 24
 I/Q B85 B1X 25
 RTSA 27
 27

 PXA

www.keysight.com/find/pxa_specifications





503	3 Hz	3.6 GHz	10 MHz	3.6 GHz
508	3 Hz	8.4 GHz	10 MHz	8.4 GHz
513	3 Hz	13.6 GHz	10 MHz	13.6 GHz
526	3 Hz	26.5 GHz	10 MHz	26.5 GHz
544	3 Hz	44 GHz		
550	3 Hz	50 GHz		

	#	N		
0		1	3 Hz	3.6 GHz
1		1	3.5	8.4 GHz
2		2	8.3	13.6 GHz
3		2	13.5	17.1 GHz
4		4	17	26.5 GHz
5		4	26.4	34.5 GHz
6		8	34.4	50 GHz

				[(x)+	+]
				1 x 10 ⁻⁷ /				1.5 x 10 ⁻⁷ / 2
20	30	C		1.5 x 10 ⁻⁸				5 x 10 ⁻⁸
				4 x 10 ⁻⁸		1p>E 30		011a 0 0 0 1 1 1 1 0 0 0 1 1 1

¶									
			= 0 Hz				1 µs	6000 s	
			10 Hz				1 ms	4000 s	
			10 Hz					0.01%	
			> 10 Hz	FFT				40%	
			= 0 Hz					0.01%	
						1	2		
			= 0 Hz	FFT				-150	+500 ms
			10 Hz					0	500 ms
								0.1 µs	
¶									
									FFT
	FFT		1 µs	5.0 s					
			0	100.0 s					
			33.3 ns	p-p					
¶									
			1 - 40001						
RBW									
	-3.01 dB		1 Hz	3 MHz	10%	4	5	6	8 MHz
			1 Hz	100 kHz					0.5%
	RBW		110 kHz	1.0 MHz	< 3.6 GHz CF				0.022 dB
			1.1	2 MHz	< 3.6 GHz CF				1.0%
			2.2	3 MHz	< 3.6 GHz CF				0.044 dB
			4	8 MHz	< 3.6 GHz CF				0.07 dB
									0.10 dB
									0.20 dB
	-3.01 dB								
	RBW		1 Hz	1.3 MHz					2%
	-60 dB/-3 dB								4:1
EMI	CISPR		200 Hz	9 kHz	120 kHz	1 MHz			EMC
EMI	461E		10 Hz	100 Hz	1 kHz	10 kHz	100 kHz	1 MHz	EMC
¶									
	1								
			B25						25 MHz
			B40						40 MHz
			B85						85 MHz
			B1X						160 MHz
			B5X						510 MHz
VBW									
			1 Hz	3 MHz	10%	4	5	6	8 MHz
									50 MHz
									6%

										DANL	+30 dBm						
										DANL	+30 dBm						
										DANL	+24 dBm						
										DANL	+20 dBm						
										0	70 dB	2 dB					
3 Hz	50 GHz																
EA3																	
										3 Hz	3.6 GHz						
										0	24 dB	1 dB					
										0	94 dB	1 dB					
+																	
*																	
										+30 dBm	1 W						
										< 10 μs	< 1%	30 dB +50 dBm 100 W					
										0.2 Vdc							
										100 Vdc	503 508 513 526						
/																	
										0.1	1 dB/	0.1 dB					
										1	20 dB/	1 dB 10					
10																	
										dBm	dBmV	dBμV	dBmA	dBμA	V	W	A
										95 ≈ 2							
10 dB	20 30 C									3.6 GHz							
										3 Hz	10 MHz	0.46 dB					
										10	20 MHz	0.35 dB					
										20 MHz	3.6 GHz	0.35 dB	0.16 dB				
										3.5	8.4 GHz	1.5 dB	0.39 dB				
										8.3	13.6 GHz	2.0 dB	0.45 dB				
										13.5	22.0 GHz	2.0 dB	0.62 dB				
										22.0	26.5 GHz	2.5 dB	0.82 dB				
										3 Hz	20 MHz	0.46 dB					
										20	50 MHz	0.35 dB	0.19 dB				
										50 MHz	3.6 GHz	0.35 dB	0.15 dB				
										3.5	5.2 GHz	1.7 dB	0.70 dB				
										5.2	8.4 GHz	1.5 dB	0.57 dB				
										8.3	13.6 GHz	2.0 dB	0.54 dB				
										13.5	17.1 GHz	2.0 dB	0.64 dB				
										17.0	22.0 GHz	2.0 dB	0.72 dB				
										22.0	26.5 GHz	2.5 dB	0.71 dB				
										26.4	34.5 GHz	2.5 dB	0.93 dB				
										34.4	50 GHz	3.2 dB	1.24 dB				
0 dB																	
										P03	P08	P13	P26	P44	P50		
										9	100 kHz	0.36 dB					
										100 kHz	50 MHz	0.68 dB	0.26 dB				
										50 MHz	3.6 GHz	0.55 dB	0.28 dB				
										3.5	8.4 GHz	2.0 dB	0.64 dB				
										8.3	13.6 GHz	2.3 dB	0.76 dB				
										13.5	17.1 GHz	2.5 dB	0.95 dB				
										17.0	22.0 GHz	3.0 dB	1.41 dB				
										22.0	26.5 GHz	3.5 dB	1.61 dB				

		9	100 kHz			0.40 dB
544	550	100 kHz	50 MHz	0.68 dB		0.34 dB
		50 MHz	3.6 GHz	0.60 dB		0.31 dB
		3.5	5.2 GHz	2.0 dB		0.81 dB
		5.2	8.4 GHz	2.0 dB		0.70 dB
		8.3	13.6 GHz	2.3 dB		0.79 dB
		13.5	17.1 GHz	2.5 dB		0.88 dB
		17.0	22.0 GHz	3.0 dB		1.07 dB
		22.0	26.5 GHz	3.5 dB		1.03 dB
		26.4	34.5 GHz	3.0 dB		1.35 dB
		34.4	50 GHz	4.1 dB		1.69 dB

10 dB

50 MHz		12	40 dB	0.14 dB		0.03 dB
		2	8 dB	0.18 dB		0.05 dB
			0 dB			0.05 dB

> 2 dB						
3 Hz			3.6 GHz			0.3 dB
3.5			8.4 GHz			0.5 dB
8.3			13.6 GHz			0.7 dB
13.5			26.5 GHz			0.7 dB
26.4			50 GHz			1.0 dB

10 dB 20 30 C 1 Hz RBW 1 MHz - 10 - 50 dBm Auto Swp Time = Accy

			50 MHz	0.24 dB		
				0.24 dB +		
			10 Hz	3.6 GHz	0.19 dB	95 2
					0.36 dB +	

P03 P08 P13 P26 P44 P50

VSWR

				503	508	513	526	544	550
10 dB			50 MHz	1.07				1.025	
			10 MHz	3.6 GHz	1.139	95%		1.134	95%
			3.5	8.4 GHz	1.290	95%		1.152	95%
			8.3	13.6 GHz	1.388	95%		1.178	95%
			13.5	17.1 GHz	1.41	95%		1.204	95%
			17.0	26.5 GHz	1.48	95%		1.331	95%
			26.4	34.5 GHz				1.321	95%
			34.4	50 GHz				1.378	95%
	0 dB		10 MHz	3.6 GHz	1.45	95%		1.393	
(P03	P08	P13	P26	P44	P50			
			3.5	8.4 GHz	1.54	95%		1.50	95%
			8.3	13.6 GHz	1.57	95%		1.310	95%
			13.5	17.1 GHz	1.48	95%		1.330	95%
			17.0	26.5 GHz	1.54	95%		1.339	95%
			26.4	34.5 GHz				1.41	95%
			34.4	50 GHz				1.42	95%

30 kHz RBW		
1 Hz	1.5 MHz RBW	0.03 dB
1.6 MHz	2.7 MHz RBW	0.05 dB
3 MHz	RBW	0.10 dB
4 5 6	8 MHz RBW	0.30 dB

-170	+30 dBm	0.01 dB
707 pV	7.07 V	0.11% 0.01 dB
0 dB		

0 dB		
------	--	--

/	0 dB	
---	------	--

-10 dBm	-18 dBm	0.10 dB	0.04 dB
-18 dBm		0.07 dB	0.02 dB

RMS

1	P03	9 kHz	3.6 GHz
	P08	9 kHz	8.4 GHz
	P13	9 kHz	13.6 GHz
	P26	9 kHz	26.5 GHz
	P44	9 kHz	44 GHz
	P50	9 kHz	50 GHz
	9 kHz	3.6 GHz	+20 dB
	3.6	26.5 GHz	+35 dB
	26.5	50 GHz	+40 dB

1 dB *

1 kHz RBW	100 kHz	20	30	C		
		20	40 MHz		-3 dBm	0 dBm
		40	200 MHz		+1 dBm	+3 dBm
		200 MHz	3.6 GHz		+3 dBm	+5 dBm
		3.6	16 GHz		+1 dBm	+4 dBm
		16	26.5 GHz		-1 dBm	+2 dBm
		26.5	50 GHz			0 dBm
P50	P03 P08 P13 P26 P44	10 MHz	3.6 GHz			-14 dBm
		3.6	26.5 GHz			
			100 kHz	20 MHz		-28 dBm
			> 70 MHz			
			526			-10 dBm
			> 526			-20 dBm
		26.5	50 GHz			-30 dBm

DANL

				= Log	0 dB	=	1 Hz RBW	20	30	C
/	503	508	513	526		1/	LNP ²		1/	LNP ²
					3 Hz	9 kHz				-100 dBm/
					9	100 kHz				-146 dBm/
					100 kHz	1 MHz				-150 dBm/
					1	10 MHz				-155 dBm/
					10 MHz	1.2 GHz				-155 dBm/
					1.2	2.1 GHz				-153 dBm/
					2.1	3.0 GHz				-152 dBm/
					3.0	3.6 GHz				-151 dBm/
					3.5	4.2 GHz				-147 dBm/-153 dBm
					4.2	8.4 GHz				-150 dBm/-155 dBm
					8.3	13.6 GHz				-149 dBm/-155 dBm
					13.5	16.9 GHz				-145 dBm/-152 dBm
					16.9	20.0 GHz				-143 dBm/-151 dBm
					20.0	26.5 GHz				-137 dBm/-150 dBm

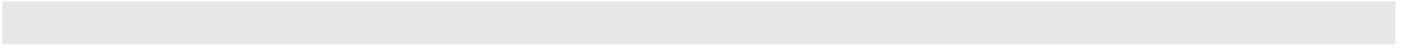
P03 P08 P13 P26 ³	100	200 kHz			-157 dBm/					-160 dBm/
	200	500 kHz			-160 dBm/					-163 dBm/
	0.5	1 MHz			-164 dBm/					-166 dBm/
	1	10 MHz			-164 dBm/					-167 dBm/
	10 MHz	2.1 GHz			-165 dBm/					-166 dBm/
	2.1	3.6 GHz			-163 dBm/					-164 dBm/
	3.5	8.4 GHz			-164 dBm/					-166 dBm/
	8.3	13.6 GHz			-163 dBm/					-165 dBm/
	13.5	16.9 GHz			-161 dBm/					-162 dBm/
	16.9	20.0 GHz			-159 dBm/					-161 dBm/
	20.0	26.5 GHz			-155 dBm/					-157 dBm/

DANL NFE 95%

/	503	508	513	526	LNP ^{2 3}			
0	f > 20 MHz				9 dB	10 dB		
1					10 dB	9 dB	10 dB	
2					10 dB	10 dB	10 dB	
3					9 dB	10 dB	10 dB	
4					10 dB	8 dB	10 dB	

20	30	C	LNP ^{2 3}		
0	1.8 GHz		-161 dBm	-171 dBm	
1	5.95 GHz		-158 dBm	-172 dBm	-162 dBm
2	10.95 GHz		-159 dBm	-168 dBm	-162 dBm
3	15.3 GHz		-152 dBm	-165 dBm	-160 dBm
4	21.75 GHz		-149 dBm	-160 dBm	-160 dBm

1. NFE
 2.LNP
 3. 3.6 GHz LNP



DANL		NFE		95%	
544 550		LNP ^{1 2}			
0	f > 20 MHz			10 dB	9 dB
1				9 dB	9 dB
2				9 dB	8 dB
3				9 dB	8 dB
4				10 dB	9 dB
5				11 dB	9 dB
6				11 dB	8 dB
DANL		LNP ^{1 2}			
20	30 C				
0	1.8 GHz	-160 dBm	-172 dBm		
1	5.95 GHz	-154 dBm	-164 dBm	-157 dBm	
2	10.95 GHz	-155 dBm	-167 dBm	-157 dBm	
3	15.3 GHz	-154 dBm	-167 dBm	-157 dBm	
4	21.75 GHz	-152 dBm	-165 dBm	-157 dBm	
5	30.4 GHz	-148 dBm	-160 dBm	-157 dBm	
6	42.7 GHz	-143 dBm	-156 dBm	-150 dBm	

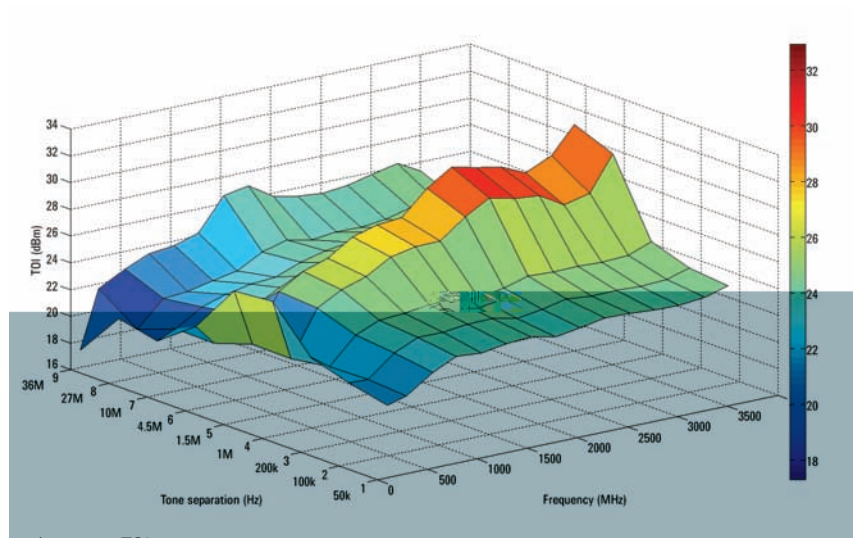
1. LNP LNP
 2. 3.6 GHz

LNP LNP

* 0 dB						
		200 kHz	8.4 GHz			
		FFT		-100 dBm		
		f		-100 dBm		
-10 dBm	10 MHz		26.5 GHz	f+45 MHz	-80 dBc	-118 dBc
	10 MHz		3.6 GHz	f+10,245 MHz	-80 dBc	-112 dBc
	10 MHz		3.6 GHz	f+645 MHz	-80 dBc	-101 dBc
	3.5		13.6 GHz	f+645 MHz	-78 dBc	-87 dBc
	13.5		17.1 GHz	f+645 MHz	-74 dBc	-84 dBc
	17.0		22 GHz	f+645 MHz	-70 dBc	-82 dBc
	22		26.5 GHz	f+645 MHz	-68 dBc	-79 dBc
-30 dBm	26.5		34.5 GHz	f+645 MHz	-68 dBc	-84 dBc
	34.4		44 GHz	f+645 MHz	-57 dBc	-79 dBc
	44		50 GHz	f+645 MHz		-75 dBc
**						
26.5 GHz						
f 10 MHz		-10 dBm		-80 dBc + 20log(N ¹)		
f 10 MHz		-40 dBm		-80 dBc + 20log(N ¹)		
f 10 MHz		> 26.5 GHz		-90 dBc		
f 10 MHz		-30 dBm		-90 dBc		
f 10 MHz		-30 dBm				
LO		-10 dBm		-68 dBc ² + 20log(N ¹)		
200 Hz		f < 10 MHz		-73 dBc ² + 20log N ¹		
SHI						
				SHI ³		
/		10 100 MHz		-15 dBm		
503 508 513 526		0.1 1.8 GHz		-15 dBm		
		1.75 2.5 GHz		-15 dBm		
		2.5 4 GHz		-15 dBm		
		4 6.5 GHz		-15 dBm		
		6.5 10 GHz		-15 dBm		
		10 13.25 GHz		-15 dBm		
		10 100MHz		-15 dBm		
544 550		100 MHz 1.8 GHz		-15 dBm		
		1.8 2.5 GHz		-15 dBm		
		2.5 3 GHz		-15 dBm		
		3 5 GHz		-15 dBm		
		5 6.5 GHz		-15 dBm		
		6.5 10 GHz		-15 dBm		
		10 13.25 GHz		-15 dBm		
		13.25 25 GHz		-15 dBm		
				-57 dBm/		
				-60 dBm/		
				-72 dBc/-95 dBc		
				-72 dBc/-101 dBc		
				-77 dBc/-105 dBc		
				-70 dBc/-105 dBc		
				-62 dBc/-105 dBc		
				+42 dBm/		
				+45 dBm/		
				+62 dBm/+80 dBm		
				+62 dBm/+86 dBm		
				+62 dBm/+90 dBm		
				+55 dBm/+90 dBm		
				+47 dBm/+90 dBm		
				-57 dBm/		
				-60 dBm/		
				-72 dBc/-95 dBc		
				-72 dBc/-99 dBc		
				-77 dBc/-99 dBc		
				-77 dBc/-105 dBc		
				-70 dBc/-105 dBc		
				-62 dBc/-105 dBc		
				-65 dBc/-105 dBc ()		
				+42 dBm/		
				+45 dBm/		
				+57 dBm/+80 dBm		
				+57 dBm/+84 dBm		
				+62 dBm/+84 dBm		
				+62 dBm/+90 dBm		
				+55 dBm/+90 dBm		
				+47 dBm/+90 dBm		
				+50 dBm/+90 dBm		
				()		
				()		
SHI						
		10 MHz 1.8 GHz		-45 dBm		
(P03 P08 P13 P26 P44 P50		1.8 13.25 GHz		-50 dBm		
		13.25 25 GHz		-50 dBm		
				-78 dBc		
				-60 dBc		
				-50 dBm		
				+33 dBm		
				+10 dBm		
				0 dBm		

1.N 4 N
 2. 0.38 rms 0.21 g rms -40 dBc
 3. /LNP LNP

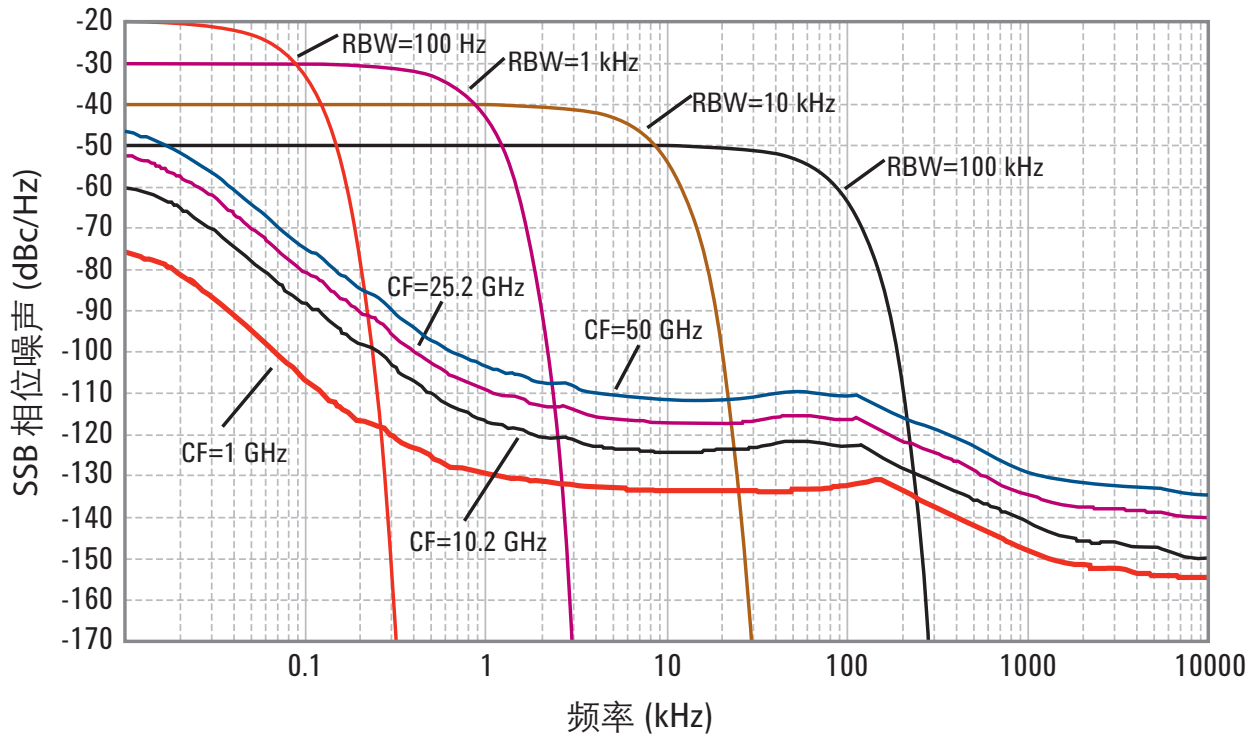
TOI										
					-16 dBm	> 5	20	30	C	
503	508	513	526	544	550	10	150 MHz	+13 dBm	+16 dBm	
						150	600 MHz	+18 dBm	+21 dBm	
						0.6	1.1 GHz	+20 dBm	+22 dBm	
						1.1	3.6 GHz	+21 dBm	+23 dBm	
/						3.5	8.4 GHz	+17 dBm	+23 dBm	
503	508	513	526			8.3	13.6 GHz	+17 dBm	+23 dBm	
						13.5	17.1 GHz	+15 dBm	+20 dBm	
						17.0	26.5 GHz	+16 dBm	+22 dBm	
544	550					3.5	8.4 GHz	+16 dBm	+23 dBm	
						8.3	13.6 GHz	+16 dBm	+23 dBm	
						13.5	17.1 GHz	+13 dBm	+17 dBm	
						17.0	26.5 GHz	+13 dBm	+20 dBm	
						26.5	50 GHz		+13 dBm	
P03	P08	P13	P26	P44	P50					
						-45 dBm	10 500 MHz		+4 dBm	
						-45 dBm	500 MHz 3.6 GHz		+4.5 dBm	
						-50 dBm	3.6 26.5 GHz		-15 dBm	



1. TOI

20	30	C	CF = 1 GHz	10 Hz	-80 dBc/Hz
				100 Hz	-94 dBc/Hz
				1 kHz	-121 dBc/Hz
				10 kHz	-129 dBc/Hz
				30 kHz	-130 dBc/Hz
				100 kHz	-129 dBc/Hz
				1 MHz	-145 dBc/Hz
				10 MHz	-155 dBc/Hz

不同中心频率上的标称相位噪声，包括 RBW
选择曲线及优化的相位噪声随频偏的变化



3. PXA

MPB

1

N9030B-508	3.6	8.4 GHz
N9030B-513	3.6	13.6 GHz
N9030B-526	3.6	26.5 GHz
N9030B-544	3.6	44 GHz
N9030B-550	.6	50 GHz

1. MPB

PXA

PowerSuite

✖						
20	30	W-CDMA C	IS95 = 10 dB	0.61 dB	95%	0.19 dB
[/1000]						
✖						
3GPP W-CDMA ACLR						
ACLR						
MS (UE)				0.09 dB		0.16 dB
				0.18 dB		0.31 dB
				-81.5 dB		-87 dB
				-82.5 dB		-88 dB
1 - 6						
ACP						
4	5	3GPP W-CDMA	5 MHz	ACPR		0.13 dB
-42	-48			BTS UUT ACPR		-21 dBm
12						
✖						
CCDF						
0.01 dB						
10						
				dBm		dBc
						%
TOI						
✖						
3GPP W-CDMA						
1	3.6	GHz		97.1 dB		101.9 dB
1	3.6	GHz		-86.4 dBm		-90.4 dBm
SEM						
cdma2000® 750 kHz				81.6 dB		86.4 dB
				-101.7 dBm		-105.7 dBm
				0.08 dB		
3GPP W-CDMA 2.515 MHz				85.4 dB		89.8 dB
				-101.7 dBm		-105.7 dBm
				0.08 dB		

0 55 C
-40 +70 C

4,500 15,000

EMC

EMC

- IEC/EN 61326-1
- CISPR Pub 11 1 A
- AS/NZS CISPR 11
- ICES/NMB-001

ISM ICES-001
ISM NMB-001

A EMC

A () (A)

- IEC/EN 61010-1
- CSA C22.2 No. 61010-1
- UL std no. 61010-1

LpA < 70 dB

ISO 7779

ISO 7779

< 40 C 55 dBA 55 dBA
40 C 65 dBA 65 dBA

IEC 60068-2

MIL-PRF-28800F 3

100 120 V 50/60/400 Hz
220 240 V 50/60 Hz

630 W
40 W

1280 x 768
269 10.6

80 GB

USB 2.0

22 kg 48
34 kg 75

177 mm 7.0
426 mm 16.8
556 mm 21.9

PXA

503 508 513 526
C35 526
544,550

N 50
APC 3.5 mm 50
2.4 mm 50

IQ BBA ¹
I Q I-Bar Q-Bar

BNC

4 I Q I- Q-
₂

1 kHz 250 kHz
50 1 M

50

1130A 1131A 1132A 1134A
1161A
-5 dB (0 10 MHz)
-0 dB (10 40 MHz)

/

+15 Vdc 150 mA 7%
-12.6 Vdc 150 mA 10%

USB

3

USB 2.0
USB A

1.2 A
0.5 A

EXM

SMA
50 °

10 mA 10 uA

40 MHz 322.5 MHz
85 160 MHz 250.0 MHz
300 MHz
3.75 14.0 GHz

10 MHz

BNC 50
0 dBm
10 MHz + (10 MHz x)

BNC 50
-5 10 dBm
1 50 MHz 1 Hz
2 x 10⁶

1 2

BNC
> 10 k
-5 +5 V TTL

1 2

BNC
50 °
0 5 V CMOS

BNC

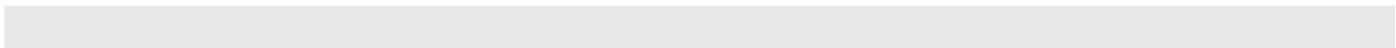
VGA 15 D-SUB
XGA 60 Hz RGB
1024 x 768

+ 28 V

BNC
28.0 0.1 V 60 mA
< 1 V

SNS Keysight SNS

MDR-80

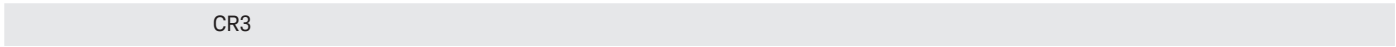


	BNC
USB	2 USB 3.0 USB A 0.9 A 1 LAN USB 2.0 USB A 0.5 A USB 3.0 USB B

GPIB	IEEE-488
GPIB	SH1 AH1 T6 SR1 RL1 PP0 DC1 C1 C2 C3 C28 DT1 L4 C0
GPIB	

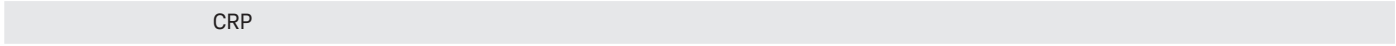
LAN TCP/IP	1000Base-T RJ45 Ethertwist
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	SMA	CR3	CRP	ALV
	50 °			



SA	I/Q	25 MHz	322.5 MHz
	B40		250 MHz
	B85/B1X		300 MHz

		160 MHz	
	1	700 MHz	900 MHz



		10	75 MHz
		0.5 MHz	
		-1	+4 dB

70 MHz		100 MHz
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		-88 dBm
--	--	---------

1.

ALV

SMA		
		50 °
1.6 V -10 dBm		
25 1 mV/dB		
49 dB		1 GHz
1.0 dB		
15 ns		
1-4	MPB	40 ns

YAV Y

BNC		
		50 °
Lin		
0.1 20 dB/		
0 1.0 V		
		1%
		1%
71.7 μs + 2.56/RBW + 0.159/ VBW		
50		
1.0 V		-10 dBm
1 V/192.66 dB		
RBW		
= Swept		
AM		
50		
1.0 V		
0 V		
		/ 200%
		/ 100%
RBW		
= Swept		

I/Q

B25	10 Hz	25 MHz
B40	10 Hz	40 MHz
B85	10 Hz	85 MHz
B1X	10 Hz	160 MHz
B5X	10Hz	510MHz

= 1 MHz	100 mHz	3 MHz
= 10 kHz	50 Hz	3 MHz
= 100 Hz	1 Hz	10 kHz
	100 mHz	100 Hz

K-B 70 dB K-B 90 dB K-B 110 dB

B25	10 Hz	25 MHz
B40	10 Hz	40 MHz
B85	10 Hz	85 MHz
B1X	10 Hz	160 MHz
B5X	10Hz	510 MHz

10 MHz

FFT

GHz	MHz	95%	dB/MHz		RMS
			95%	95%	
3.6	10	0.20 dB	0.12 dB	0.10 dB	0.02 dB
3.6 - 26.5	10				0.23 dB
3.6 - 26.5	10	0.25 dB	0.12 dB	0.10 dB	0.02 dB
26.5 - 50	10				0.12 dB
26.5 - 50	10	0.30 dB	0.12 dB	0.10 dB	0.024 dB

1. MPB

I/Q

GHz		MHz		RMS	
0.02	< 3.6	10		0.06	0.012
3.6	26.5	10	1	0.10	0.022
3.6		10		0.11	0.024
10 MHz					
20 MHz					
=		-10 dBm		-8 dBm	
=		-20 dBm		-17.5 dBm	
(DANL +) + 2.25 dB					
10 MHz					
IQ					
		4,000,000 IQ			
		32	64	89600 VSA	
IQ		536 MSa	2 ²⁹ Sa	268 MSa	2 ²⁸ Sa
		/ IQ		2 GB	
IQ					
		x 1.25			
ADC		16			

1. MPB

I/Q

25 MHz						
* FFT						
GHz	MHz		95%	95%	dB/MHz	RMS
< 3.6	10	25	0.30 dB	0.12 dB	0.05 dB	0.02 dB
3.6 26.5	10	25				0.50 dB
3.6 26.5	10	25	0.40 dB			0.03 dB
26.5 50	10	25				0.31 dB
26.5 50	10	25	0.40 dB			0.02 dB

GHz	MHz			RMS
0.02 < 3.6	25		0.48	0.12
3.6	25	1	0.85	0.20

25 MHz			
ADC			
CF			
=			
0		-8 dBm	
1	4	-7 dBm	
CF			
=			
0		-18 dBm	
1	4	-17 dBm	
		CF	3 dB

25 MHz			
IQ			
4,000,000 IQ			
89600 VSA			
32 64			
IQ	536 MSa	2 ²⁹ Sa	268 MSa 2 ²⁸ Sa 2 GB
/ IQ			
x 1.25			
ADC	16		

1. MPB

I/Q

B40 40 MHz

B40

B85

B1X

40 MHz

GHz	MHz				RMS
0.03 < 3.6	40			0.4 dB	0.25 dB
3.6 < 8.4	40	1		0.4 dB	0.16 dB
8.4 < 26.5	40	1		0.7 dB	0.20 dB
26.5 < 34.4	40	1		0.8 dB	0.25 dB
34.4 < 50	40	1		1.0 dB	0.35 dB

*

GHz	MHz				RMS
0.03 < 3.6	40			0.16	0.041
3.6	40	1		1.5	0.35

EVM	802.11g OFDM	EVM	89600	*	EQ
2.4 GHz			-52.0 dB	0.25%	
5.8 GHz	MPB		-49.1 dB	0.35%	

40 MHz

SFDR		
12 MHz		-80 dBc
18 MHz		-79 dBc
		-77 dBc

ADC

CF		= 0 dB	
0			-8 dBm
1	4		-7 dBm

CF			
0			-18 dBm
1	4		-17 dBm

CF		3 dB
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1. MPB

I/Q

B40 40 MHz

40 MHz

IQ 4,000,000 IQ

32 64 89600 VSA

IQ 536 MSa 2

□

[Grey bar]

[Grey bar]

[Grey bar]

[Grey bar]

I/Q

B85 85 MHz B1X 160 MHz

85		160 MHz	
SFDR			
	12 MHz		-75 dBc
	63 MHz		-74 dBc
			-72 dBc
ADC			
	CF		
	=	= 0 dB	
0			-8 dBm
1	4		-7 dBm
	CF		
	=		
0			-18 dBm
1	4		-17 dBm
	CF		3 dB
85		160 MHz	
IQ			
			4,000,000 IQ
			89600 VSA
		32	64
			2 GB
		536 MSa	2 ²⁹ Sa
		268 MSa	2 ²⁸ Sa
		/	IQ
IQ			
			x 1.25
ADC			
			14

RTSA ¹

RT1 RT2

RT1				510 MHz
RT2				510 MHz
	> 60 dB	StM ²		
RT1				11.42 ns
RT2				5.0 ns
	100%	POI		FMT
RT1				17.3 μs
RT2				3.57 μs
				100 μs
FFT				292,969 /

RTS

I/Q	³			
IQ				16- I + jQ
				510 MHz
				LVDS
				RTSA
IQ				
B1X				
				510 MHz
				200 Msa/s
				X-COM IQC5160B
				510 MHz 3
				IRIG-B GPS

- 1. RTSA PXA RT1/RT2
- 2. StM
- 3. X-COM IQC5160B PXA

Keysight PXA

5992-1316EN

5992-1318EN

