RIGOL

- All-Digital IF Technology
- Frequency Range from 9 kHz up to 7.5 GHz
- Min. -161 dBm Displayed Average Noise Level (Typ.)
- Min. < -98 dBc/Hz @ 10 kHz Offset Phase Noise
- Level Measurement Uncertainty < 0.8 dB
- 10 Hz Minimum Resolution Bandwidth
- Up to 7.5 GHz Tracking Generator (DSA8XX/E-TG)
- Advanced Measurement Functions (Opt.)
- EMI Filter & Quasi-Peak Detector Kit (Opt.)
- VSWR Measurement Kit (Opt.)
- PC Software (Opt.)
- Optional RF TX/RX Training Kit
- Optional RF Accessories (Cable, Adaptor, Attenuator, Bridge ...)
- Complete Connectivity: LAN (LXI), USB Host & Device, GPIB (Opt.)
- 8 Inch WVGA (800x480) Display
- Compact Size, Light Weight Design

DSA800/E Series Spectrum Analyzer

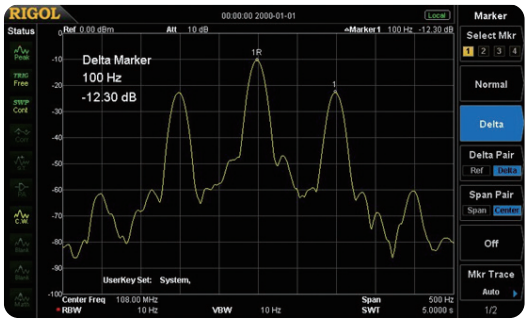
Product Dimensions: Width X Height X Depth = 361.6 mm x 178.8 mm x 128 mm

➤ Benefits of Rigol's all digital IF design

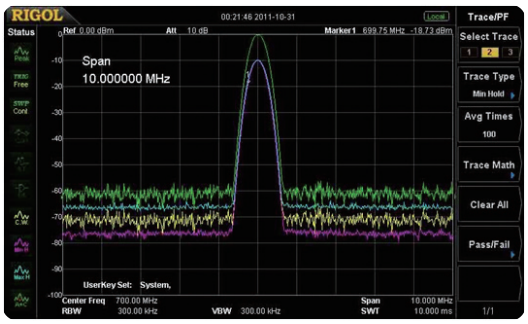
- The ability to measure smaller signals: on the basis of this technology, the IF filter enables smaller bandwidth settings, which greatly reduce the displayed average noise level.
- The ability to distinguish between small signals by frequency: using the IF filter with the smallest bandwidth setting, it is possible to make out signals with a frequency difference of only 10 Hz.
- High precision amplitude readings: this technology almost eliminates the errors generated by filter switching, reference level uncertainty, scale distortion, as well as errors produced in the process of switching between logarithmic and linear display of amplitude when using a traditional analog IF design.
- Higher reliability: compared with traditional analog designs, the digital IF greatly reduces the complexity of the hardware, the system instability caused by channel aging, and the temperature sensitivity that can contribute to parts failure.
- High measurement speed: the use of digital IF technology improves the bandwidth precision and selectivity of the filter, minimizing the scanning time and improving the speed of the measurement.

➤ Features and Benefits

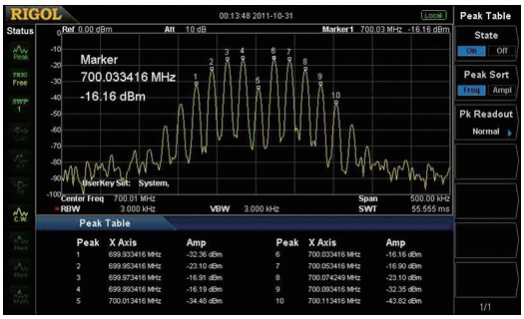
Distinguish the two nearby signals clearly with the 10 Hz RBW



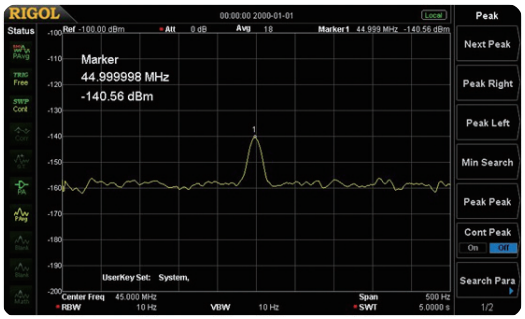
Compare the spectrums with different color trace



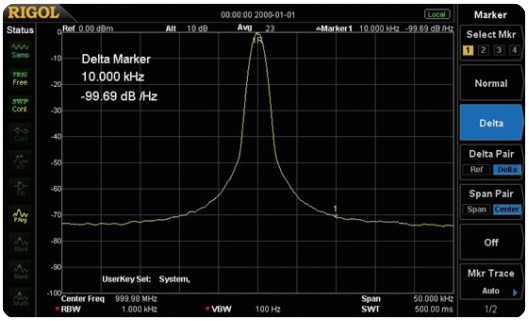
Readout the spectrum peak values with the peak table function



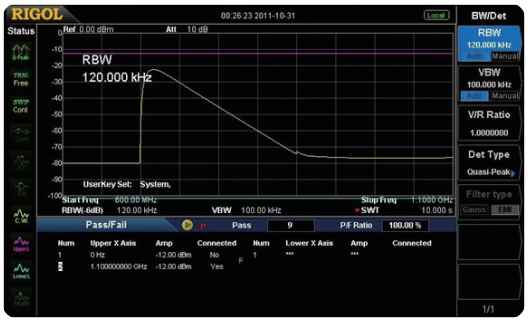
Measure lower level signal with the preamplifier turn on



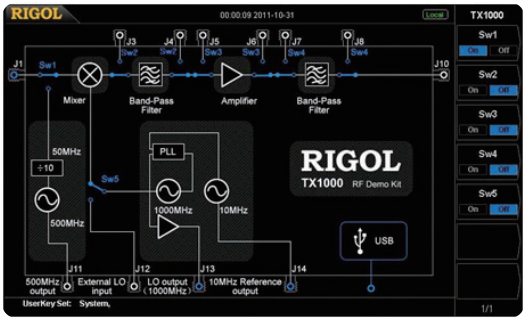
Phase noise < -98 dBc/Hz @10 kHz offset (DSA832/875/832E)



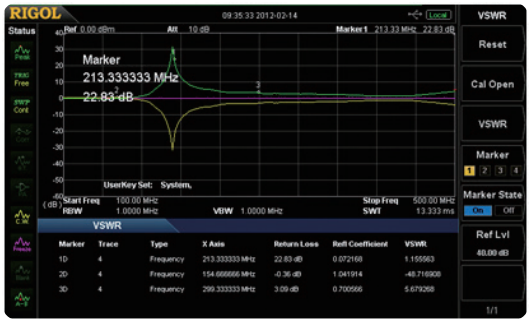
EMI kit (EMI filter & Quasi-peak & Pass/Fail)



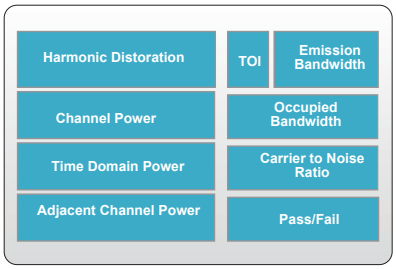
The GUI to control the RF demo kit (Transmitter) directly



VSWR measurement



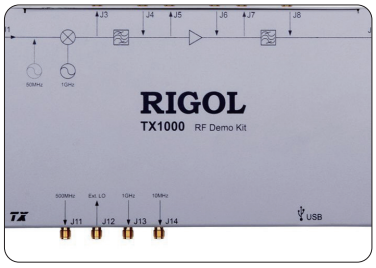
▶ RIGOL Spectrum Analyzer Option and Accessory



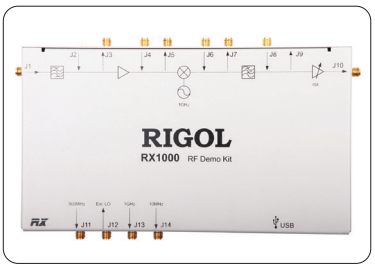
Advanced Measurement Kit
(AMK-DSA800)

USB to GPIB Converter
(USB-GPIB)

VSWR Bridge
(VB1032/VB1040/VB1080)



RF Demo Kit
(TX1000)



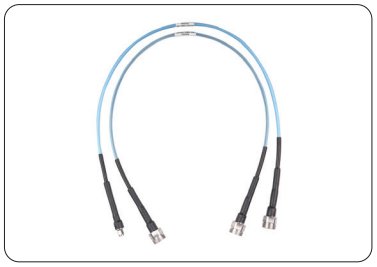
RF Demo Kit
(RX1000)

RF CATV Kit

DSA Utility Kit

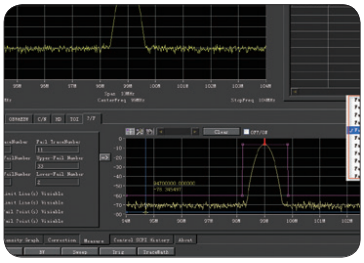
RF Adaptor Kit

RF Attenuator Kit

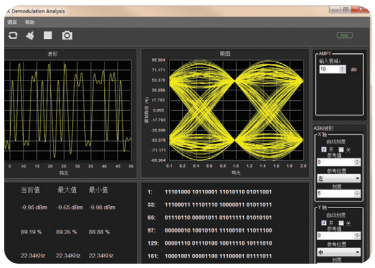


RF Cable Kit
(CB-NM-NM-75-L-12G)
(CB-NM-SMAM-75-L-12G)

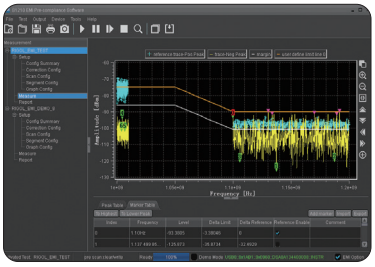
High Power Attenuator
(ATT03301H)



DSA PC Software
(Ultra Spectrum)



ASK-FSK Demodulation Analysis
(S1220 ASK-FSK Demodulation Analysis Software)



EMI Pre-compliance Test Software
(S1210 EMI Pre-compliance Software)

Near Field Probe
(NFP-3)

▶ Specifications

Specifications are valid under the following conditions: the instrument is within the calibration period, is stored for at least two hours at 0 ℃ to 50 ℃ temperature, and is warmed up for 40 minutes. Unless otherwise noted, the specifications in this manual include the measurement uncertainty.

Typical (typ.): characteristic performance, which 80 percent of the measurement results will meet at room temperature (approximately 25℃). This data is not warranted and does not include the measurement uncertainty.

Nominal (nom.): the expected mean or average performance or a designed attribute (such as the 50 Ω connector). This data is not warranted and is measured at room temperature (approximately 25℃).

Measured (meas.): an attribute measured during the design phase which can be compared to the expected performance, such as the amplitude drift variation with time. This data is not warranted and is measured at room temperature (approximately 25℃).

NOTE: All charts in this manual are the measurement results of multiple instruments at room temperature unless otherwise noted. The specifications (except the TG specifications) listed in this manual are those when the tracking generator is off.

Frequency

Frequency				
	DSA815	DSA832	DSA875	DSA832E
Frequency range	9 kHz to 1.5 GHz	9 kHz to 3.2 GHz	9 kHz to 7.5 GHz	9 kHz to 3.2 GHz
Frequency resolution	1 Hz			

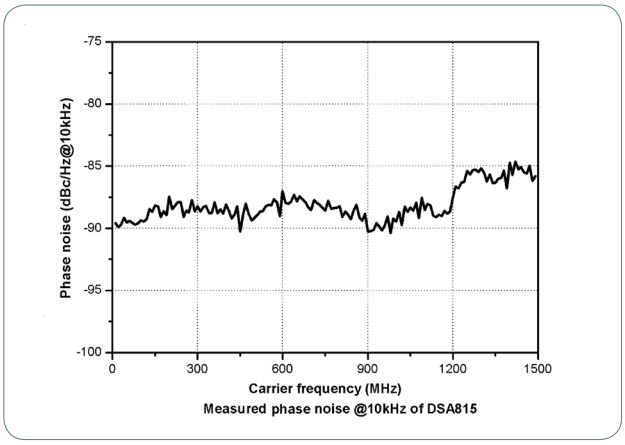
Internal Reference Frequency				
	DSA815	DSA832	DSA875	DSA832E
Reference frequency	10 MHz			
Accuracy	± [(time since last adjustment × aging rate) + temperature stability + calibration accuracy]			
Initial calibration accuracy	<1 ppm			
Temperature stability	0℃ to 50℃ , reference to 25℃			
	<2 ppm	<0.5 ppm		<1 ppm
Aging rate	<2 ppm/year	<1 ppm/year		<2 ppm/year

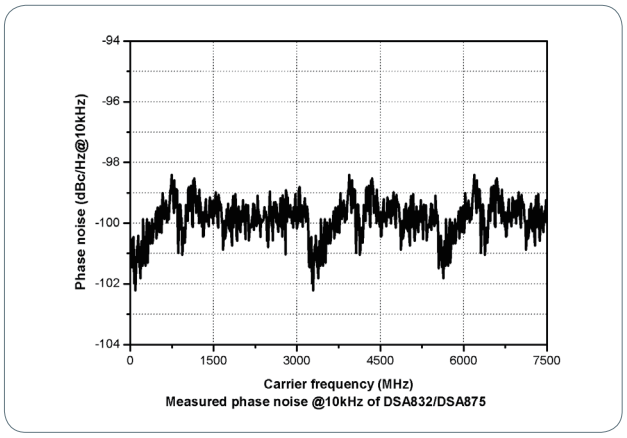
Frequency Readout Accuracy	
Marker resolution	span/ (number of sweep points - 1)
Marker uncertainty	± (frequency indication × frequency reference uncertainty + 1% × span + 10% × resolution bandwidth + marker resolution)

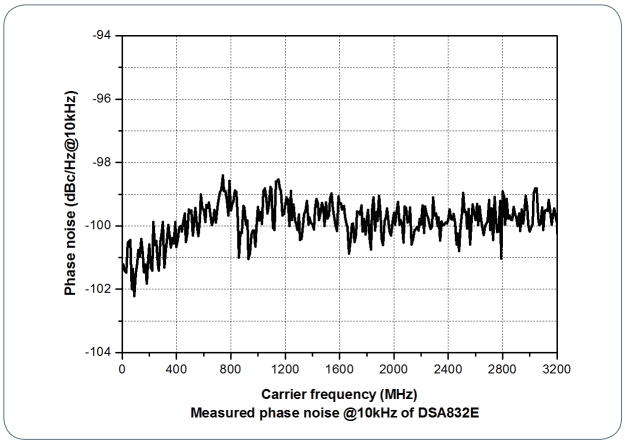
Frequency Counter	
Resolution	1 Hz, 10 Hz, 100 Hz, 1 kHz, 10 kHz, 100 kHz
Uncertainty	± (frequency indication × reference frequency accuracy + counter resolution)

Frequency Span	
Range	0 Hz, 100 Hz to maximum frequency of instrument
Uncertainty	±span/ (number of sweep points - 1)

SSB Phase Noise				
	20℃ to 30℃ , f_c=1 GHz			
Carrier offset	DSA815	DSA832	DSA875	DSA832E
10 kHz	<-80 dBc/Hz	<-98 dBc/Hz		<-90 dBc/Hz, <-98 dBc/Hz (typ.)
100 kHz	<-100 dBc/Hz (typ.)	<-100 dBc/Hz (typ.)		<-100 dBc/Hz (typ.)







Residual FM				
	20°C to 30°C , RBW = VBW = 1 kHz			
	DSA815	DSA832	DSA875	DSA832E
Residual FM	<50 Hz (nom.)	<20 Hz (nom.)		

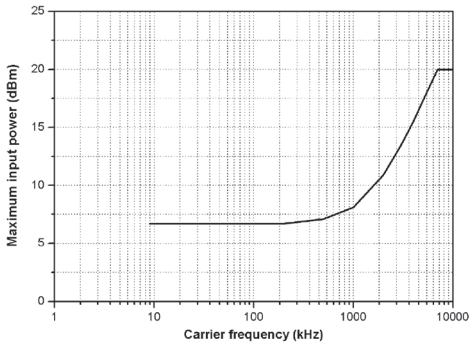
Bandwidths				
	Set "Auto SWT" to "Accy"			
	DSA815	DSA832	DSA875	DSA832E
Resolution bandwidth (-3 dB)	10 Hz to 1 MHz, in 1-3-10 sequence			
RBW uncertainty	<6% (nom.)			
Resolution filter shape factor (60 dB: 3 dB)	<5 (nom.)			
Video bandwidth (-3 dB)	1 Hz to 3 MHz, in 1-3-10 sequence			
Resolution bandwidth (-6 dB) (EMI-DSA800 option)	200 Hz, 9 kHz, 120 kHz			

Amplitude

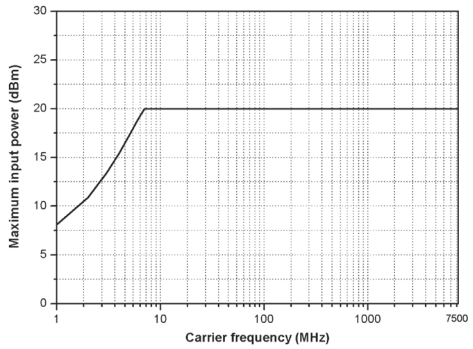
Measurement Range	
Range	$f_c \geq$ 10 MHz
	DANL to +20 dBm

Maximum Input Level	
DC voltage	50 V
CW RF power	attenuation = 30 dB
	+20 dBm (100 mW)
Max. damage level[1]	+30 dBm (1 W)

NOTE: [1] When $f_c \geq$ 10 MHz, input level > +25 dBm and PA is Off, the protection switch will be on.



Measured frequency VS maximum input power of DSA815/DSA832/DSA875/DSA832E



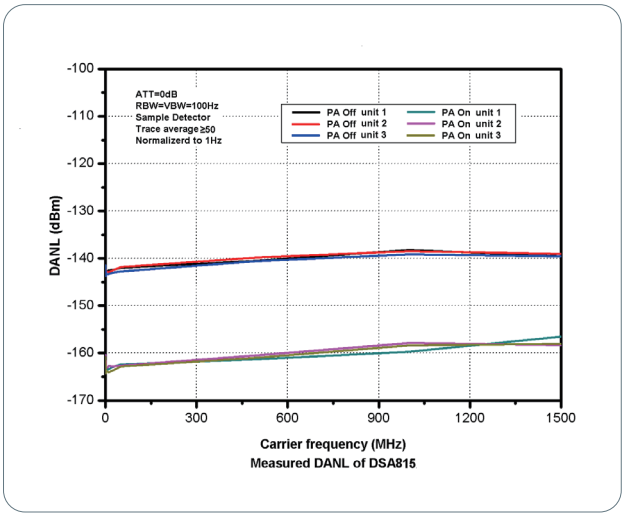
Measured frequency VS maximum input power of DSA815/DSA832/DSA875/DSA832E

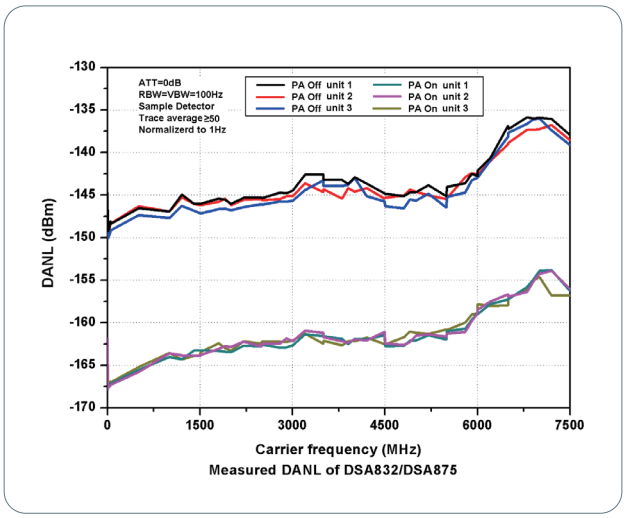
Displayed Average Noise Level (DANL)		
		DSA815
Frequency		attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average ≥ 50, tracking generator off, 20°C to 30°C , input impendence = 50 Ω
PA off	100 kHz to 1 MHz	<-90 dBm, <-110 dBm (typ.)
	1 MHz to 1.5 GHz	<-110 dBm + 6 × (f/1 GHz) dB, <-115 dBm (typ.)
PA on	100 kHz to 1 MHz	<-110 dBm, <-130 dBm (typ.)
	1 MHz to 1.5 GHz	<-130 dBm + 6 × (f/1 GHz) dB, <-135 dBm (typ.)

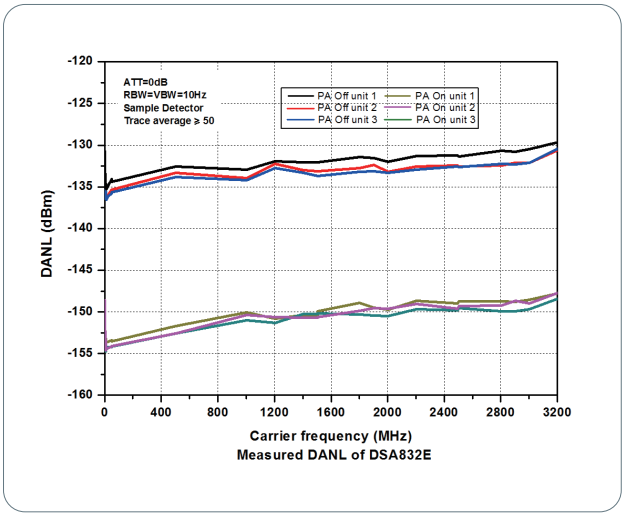
Displayed Average Noise Level (DANL)			
		DSA832	DSA875
Frequency		attenuation = 0 dB, RBW = VBW = 10 Hz, sample detector, trace average ≥ 50, tracking generator off, 20°C to 30°C , input impendence = 50 Ω	
PA off	9 kHz to 100 kHz	<-110 dBm (typ.)	<-110 dBm (typ.)
	100 kHz to 5 MHz	<-125 dBm, <-128 dBm (typ.)	<-125 dBm, <-128 dBm (typ.)
	5 MHz to 3.2 GHz	<-130 dBm, <-134 dBm (typ.)	<-130 dBm, <-134 dBm (typ.)
	3.2 GHz to 6 GHz		<-126 dBm, <-130 dBm (typ.)
	6 GHz to 7.5 GHz		<-121 dBm, <-125 dBm (typ.)
PA on	100 kHz to 1 MHz	<-142 dBm (typ.)	<-142 dBm (typ.)
	1 MHz to 5 MHz	<-142 dBm, <-145 dBm (typ.)	<-142 dBm, <-145 dBm (typ.)
	5 MHz to 3.2 GHz	<-147 dBm, <-151 dBm (typ.)	<-147 dBm, <-151 dBm (typ.)
	3.2 GHz to 6 GHz		<-143 dBm, <-147 dBm (typ.)
	6 GHz to 7.5 GHz		<-138 dBm, <-142 dBm (typ.)

Displayed Average Noise Level (DANL)		
	DSA832E	
Frequency	attenuation = 0 dB, RBW = VBW = 10 Hz, sample detector, trace average ≥ 50, tracking generator off, 20°C to 30°C , input impendence = 50 Ω	
PA off	9 kHz to 100 kHz	<-110 dBm (typ.)
	100 kHz to 5 MHz	<-122 dBm, <-128 dBm (typ.)
	5 MHz to 3.2 GHz	<-127 dBm, <-134 dBm (typ.)
PA on	100 kHz to 1 MHz	<-142 dBm (typ.)
	1 MHz to 5 MHz	<-140 dBm, <-145 dBm (typ.)
	5 MHz to 3.2 GHz	<-145 dBm, <-151 dBm (typ.)

Displayed Average Noise Level (DANL) (Normalized to 1Hz)					
		DSA815	DSA832	DSA875	DSA832E
Frequency		attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average ≥ 50, tracking generator off, normalized to 1Hz, 20℃ to 30℃ , input impendence = 50 Ω			
PA off	9 kHz to 100 kHz		<-120 dBm (typ.)	<-120 dBm (typ.)	<-120 dBm (typ.)
	100 kHz to 1 MHz	<-110 dBm, <-130 dBm (typ.)	<-135 dBm, <-138 dBm (typ.)	<-135 dBm, <-138 dBm (typ.)	<-132 dBm, <-138 dBm (typ.)
	1 MHz to 5 MHz	<-130 dBm + 6 × (f/1 GHz) dB, <-135 dBm (typ.)			
	5 MHz to 1.5 GHz		<-140 dBm, <-144 dBm (typ.)	<-140 dBm, <-144 dBm (typ.)	<-137 dBm, <-144 dBm (typ.)
	1.5 GHz to 3.2 GHz				
	3.2 GHz to 6 GHz			<-136 dBm, <-140 dBm (typ.)	
	6 GHz to 7.5 GHz			<-131 dBm, <-135 dBm (typ.)	
PA on	100 kHz to 1 MHz	<-130 dBm, <-150 dBm (typ.)	<-152 dBm (typ.)	<-152 dBm (typ.)	<-152 dBm (typ.)
	1 MHz to 5 MHz	<-150 dBm + 6 × (f/1 GHz) dB, <-155 dBm (typ.)	<-152 dBm, <-155 dBm (typ.)	<-152 dBm, <-155 dBm (typ.)	<-150 dBm, <-155 dBm (typ.)
	5 MHz to1.5 GHz		<-157 dBm, <-161 dBm (typ.)	<-157 dBm, <-161 dBm (typ.)	<-155 dBm, <-161 dBm (typ.)
	1.5 GHz to 3.2 GHz				
	3.2 GHz to 6 GHz			<-153 dBm, <-157 dBm (typ.)	
	6 GHz to 7.5 GHz			<-148 dBm, <-152 dBm (typ.)	

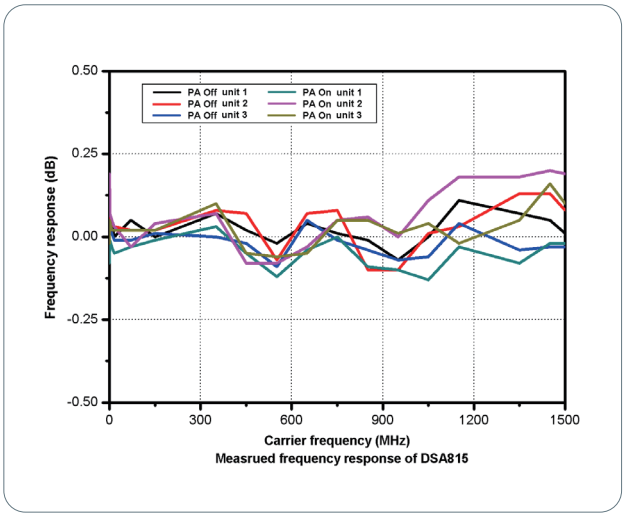


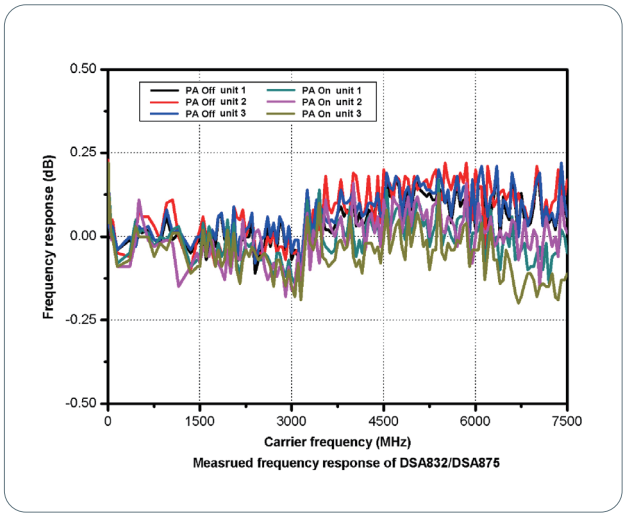


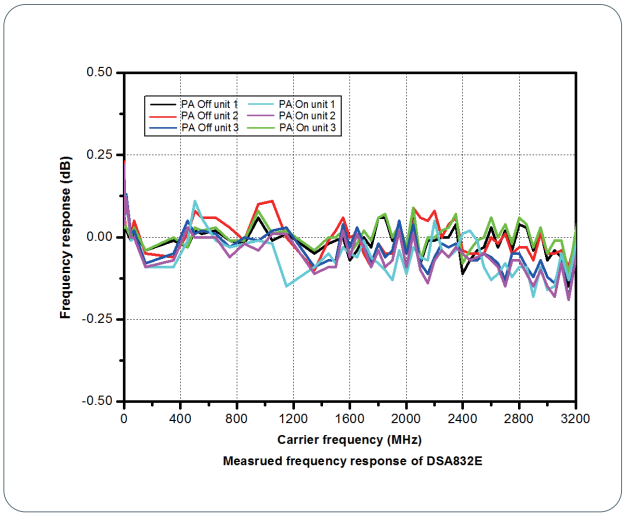


Level Display	
Logarithmic level axis	1 dB to 200 dB
Linear level axis	0 to reference level
Number of display points	601
Number of traces	3 + math trace
Trace detectors	normal, positive-peak, negative-peak, sample, RMS, voltage average
	quasi-peak (with EMI-DSA800 option)
Trace functions	clear write, max hold, min hold, average, view, blank
Units of level axis	dBm,dBmV, dBμV, nV, μV, mV, V, nW, μW, mW, W

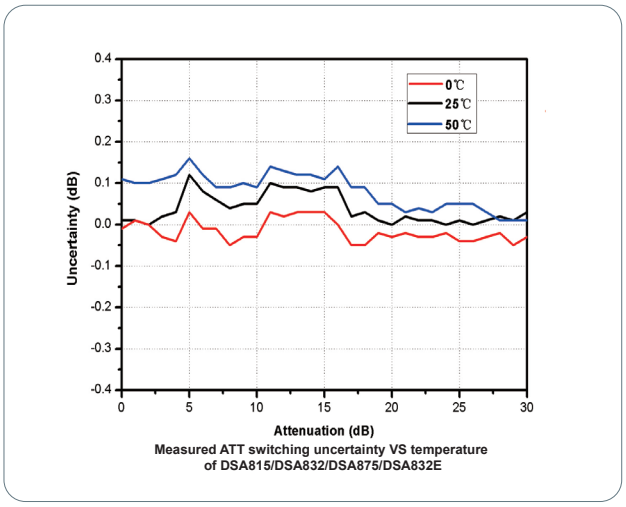
Frequency Response					
		DSA815	DSA832	DSA875	DSA832E
Frequency response		$f_c \geq$ 100 kHz, attenuation = 10 dB, relative to 50 MHz, 20°C to 30°C			
PA off	100 kHz to 1.5 GHz	<0.7 dB	<0.5 dB, <0.3 dB (typ.)	<0.5 dB, <0.3 dB (typ.)	<0.7 dB
	1.5 GHz to 3.2 GHz				
	3.2 GHz to 7.5 GHz			<0.7 dB, <0.3 dB (typ.)	
		$f_c \geq$ 1MHz, attenuation = 10 dB, relative to 50 MHz, 20°C to 30°C			
PA on	100 kHz to 1.5 GHz	<1.0 dB	<0.7 dB, <0.3 dB (typ.)	<0.7 dB, <0.3 dB (typ.)	<1.0 dB
	1.5 GHz to 3.2 GHz				
	3.2 GHz to 7.5 GHz			<0.9 dB, <0.3 dB (typ.)	







Input Attenuation Switching Uncertainty				
	DSA815	DSA832	DSA875	DSA832E
Setting range	0 to 30 dB, in 1 dB step			
Switching uncertainty	f_c=50 MHz, relative to 10 dB, 20 ºC to 30 ºC			
	<0.5 dB	<0.3 dB		



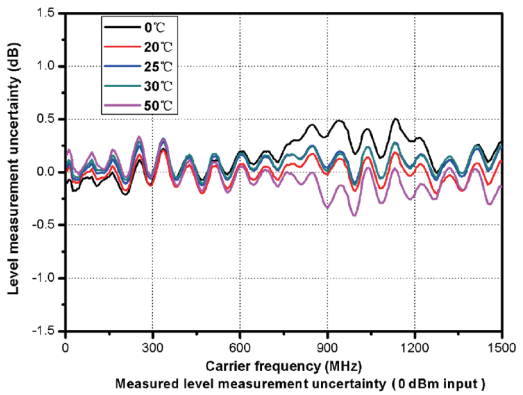
Absolute Amplitude Uncertainty				
	DSA815	DSA832	DSA875	DSA832E
Uncertainty	f_c = 50 MHz, peak detector, preamplifier off, attenuation = 10 dB, input signal level = -10 dBm, 20 ºC to 30 ºC			
	<0.4 dB	<0.3 dB		

RBW Switching Uncertainty	
Uncertainty	relative to 1 kHz RBW
	<0.1 dB

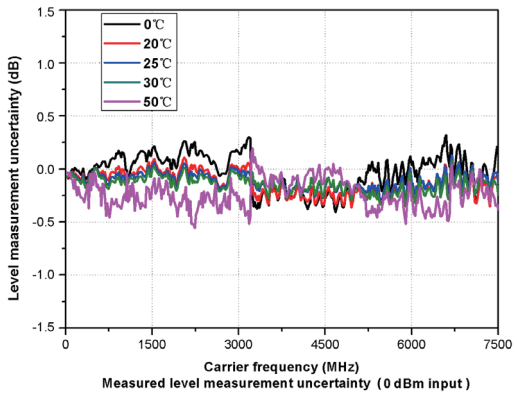
Reference Level		
Range		-100 dBm to +20 dBm, in 1 dB step
Resolution	log scale	0.01 dB
	linear scale	4 digits

Preamplifier					
		DSA815	DSA832	DSA875	DSA832E
Gain	100 kHz to 1.5 GHz	20 dB (nom.)	17 dB (nom.)	17 dB (nom.)	17 dB (nom.)
	1.5 GHz to 3.2 GHz				
	3.2 GHz to 7.5 GHz				

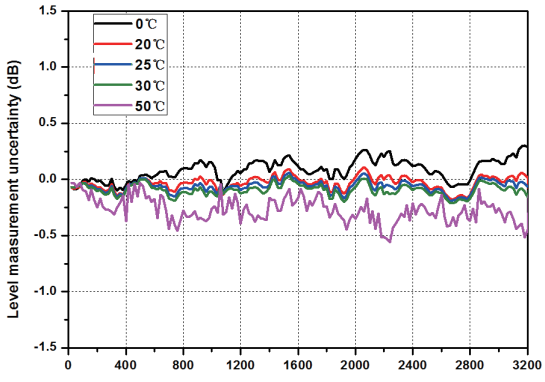
Level Measurement Uncertainty				
	DSA815	DSA832	DSA875	DSA832E
	95% confidence level, S/N>20 dB, RBW = VBW = 1 kHz, preamplifier off, attenuation = 10 dB, -50 dBm < input level ≤ 0 dBm, f_c >10 MHz, 20 °C to 30 °C			
Level measurement uncertainty	<1.5 dB (nom.)	<0.8 dB (nom.)		<1.0 dB (nom.)



Measured level measurement uncertainty (0 dBm input)
VS temperature of DSA815

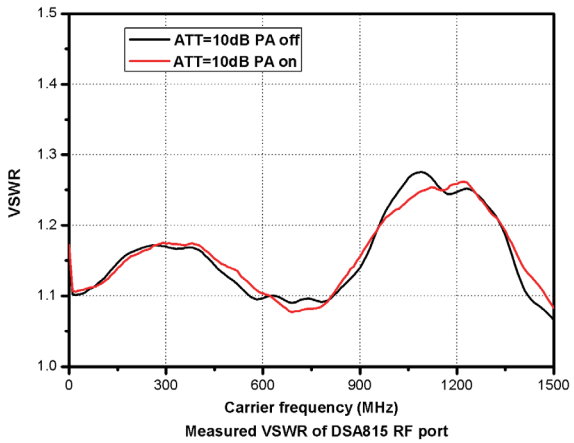


Measured level measurement uncertainty (0 dBm input)
VS temperature of DSA832/DSA875

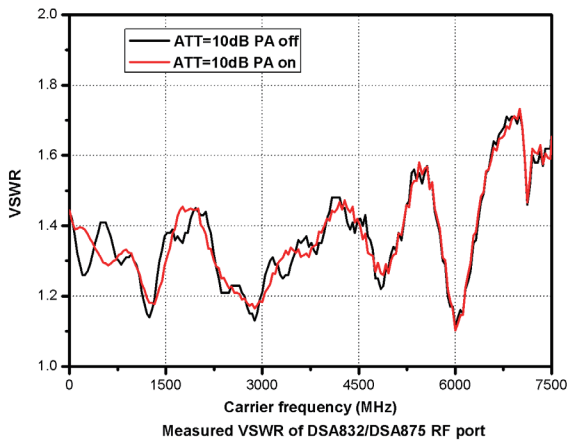


Measured level measurement uncertainty(0dBm input)
VS temperature of DSA832E

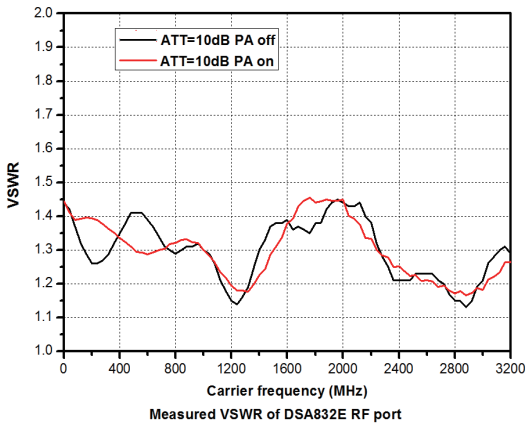
RF Input VSWR					
		DSA815	DSA832	DSA875	DSA832E
		attenuation ≥ 10 dB			
VSWR	300 kHz to 1.5 GHz	<1.5 (nom.)	<1.5 (nom.)	<1.5 (nom.)	<1.5 (nom.)
	1.5 GHz to 3.2 GHz				
	3.2 GHz to 7.5 GHz			<1.8 (nom.)	



Measured VSWR of DSA815 RF port



Measured VSWR of DSA832/DSA875 RF port



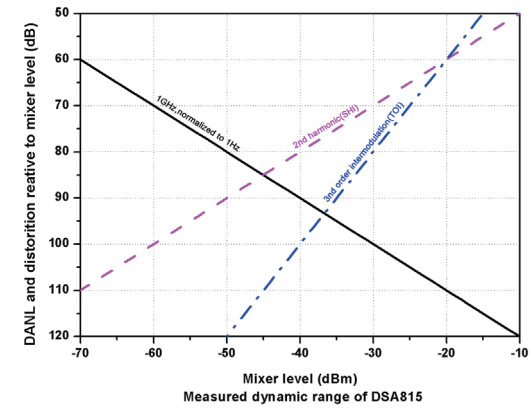
Measured VSWR of DSA832E RF port

Distortion

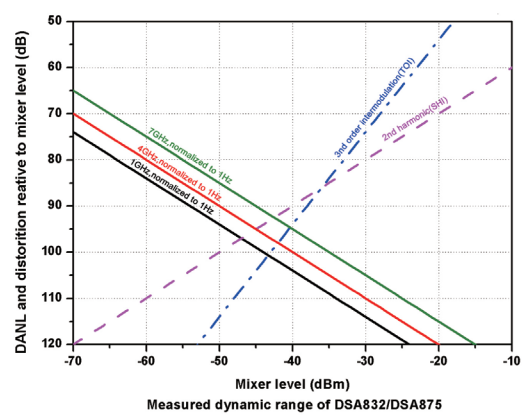
Second Harmonic Intercept				
	DSA815	DSA832	DSA875	DSA832E
Second harmonic intercept (SHI)	f_c ≥ 50 MHz, input signal level = -20 dBm, attenuation = 10 dB			
	+40 dBm	+45 dBm		+40 dBm

Third-order Intercept				
	DSA815	DSA832	DSA875	DSA832E
Third-order intercept (TOI)	f_c ≥50 MHz, two -20 dBm tones at input mixer spaced by 200 kHz, attenuation = 10 dB			
	+10 dBm	+11 dBm, +15 dBm (typ.)		+7 dBm

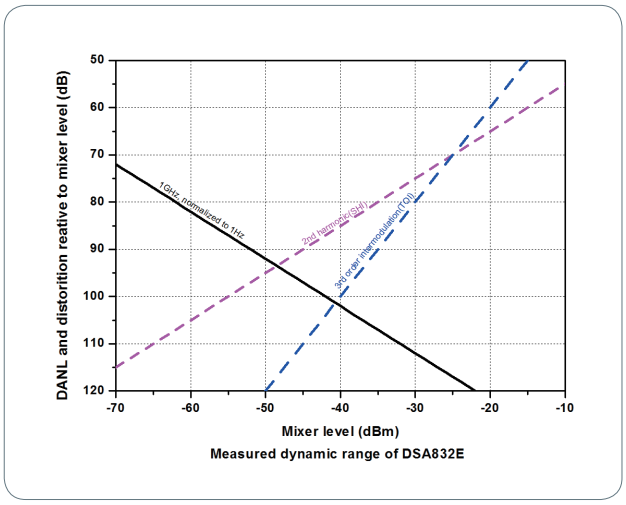
1 dB Gain Compression	
1 dB compression of input mixer (P_{1dB})	f_c ⩾ 50 MHz, attenuation = 0 dB
	>0 dBm



Measured dynamic range of DSA815



Measured dynamic range of DSA832/DSA875



Spurious Responses				
	DSA815	DSA832	DSA875	DSA832E
Spurious response	input terminated 50 Ω, attenuation = 0 dB, 20ºC to 30ºC			
	<-88 dBm (typ.)	<-90 dBm[1], <-100 dBm (typ.)		
Intermediate frequency	<-60 dBc			
System related sidebands	referenced to local oscillators, referenced to A/D conversion, referenced to subharmonic of first LO, referenced to harmonic of first LO			
	<-60 dBc			
Input related spurious	mixer level = -30 dBm			
	<-60 dBc			

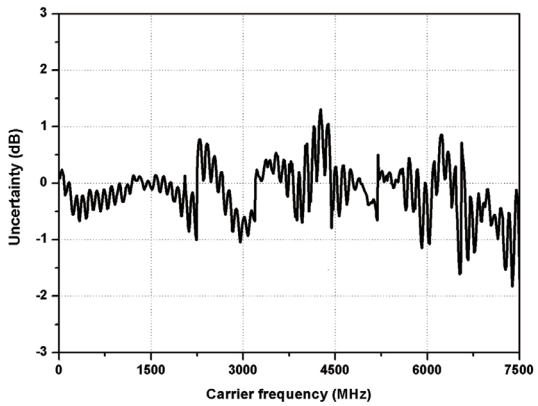
Sweep

Sweep					
		DSA815	DSA832	DSA875	DSA832E
Sweep time	span≥100 Hz	10 ms to 1500s	1 ms to 1500 s	1 ms to 1500 s	1 ms to 3200 s
	zero span	20 μs to 1500 s	20 μs to 3200 s	20 μs to 7500 s	20 μs to 3200 s
Sweep time uncertainty	span≥100 Hz	5% (nom.)			
	zero span (sweep time setting value >1 ms)	5% (nom.)			
Sweep mode		continuous, single			

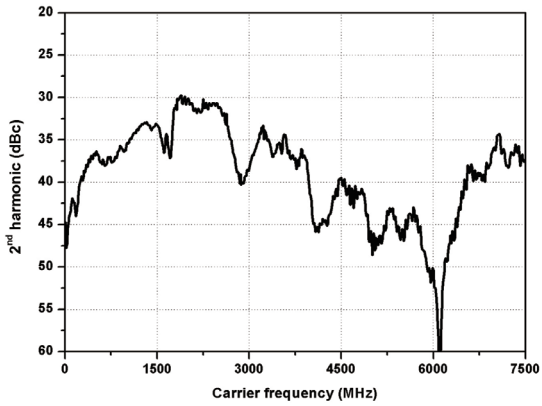
Tracking Generator (Option)

TG Output				
	DSA815	DSA832	DSA875	DSA832E
Frequency range	100 kHz to 1.5 GHz	100 kHz to 3.2 GHz	100 kHz to 7.5 GHz	100 kHz to 3.2 GHz
Output level range	-20 dBm to 0 dBm	-40 dBm to 0 dBm		
Output level resolution	1 dB			
Output flatness	relative to 50 MHz			
	±3 dB (nom.)			

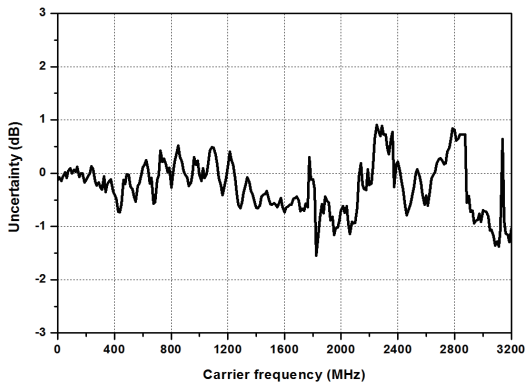
NOTE: [1] Except the internal local oscillator (1820 MHz) and its harmonics.



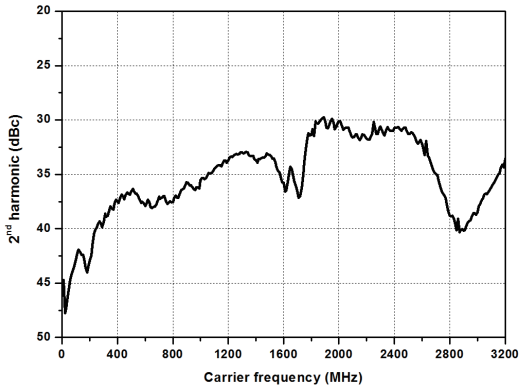
Measured tracking generator output level uncertainty @0dBm of DSA832/DSA875



Measured tracking generator output 2nd harmonic of DSA832/DSA875



Measured tracking generator output level uncertainty @0dBm of DSA832E



Measured tracking generator output 2nd harmonic of DSA832E

Trigger Functions

Trigger	
Trigger source	free run, video, external
External trigger level	5 V TTL level

SSC-DSA (Option) (Only for DSA815)

Signal Seamless Capture (SSC)	
Measurement bandwidth	1.5 MHz

Input /Output

Front Panel Connectors		
RF input	impedance	50 Ω (nom.)
	connector	N female
Tracking generator output	impedance	50 Ω (nom.)
	connector	N female

Internal/ External Reference		
Internal reference	frequency	10 MHz
	output level	+3 dBm to +10 dBm, +8 dBm (typ.)
	impedance	50 Ω (nom.)
	connector	BNC female
External reference	frequency	10 MHz ±2 ppm
	input level	0 dBm to +10 dBm
	impedance	50 Ω (nom.)
	connector	BNC female

External Trigger Input		
External trigger input	impedance	1 kΩ (nom.)
	connector	BNC female

Communication Interface		
USB host	connector	A plug
	protocol	version2.0
USB device	connector	B plug
	protocol	version2.0
LAN	LXI core 2011 device	10/100Base, RJ-45
IEC/IEEE (GPIB) bus (USB-GPIB option)		IEEE488.2

General Specifications

Display	
Type	TFT LCD
Resolution	800 x 480 pixels
Size	8 inch
Colors	64 k

Printer Supported	
Protocol	PictBridge

Mass Memory	
Mass memory	flash disk (internal), USB storage device (not supplied)

Power Supply	
Input voltage range, AC	100 V to 240 V (nom.)
AC supply frequency	45 Hz to 440 Hz
Power consumption	35 W (typ.), max. 50 W with all options

Environmental		
Temperature	operating temperature range	0°C to 50°C
	Storage temperature range	-20°C to 70°C
Humidity	0°C to 30°C	⩽ 95% rel. humidity
	30°C to 40°C	⩽ 75% rel. humidity
Altitude	operating height	up to 3,000m

Electromagnetic Compatibility and Safety		
EMC	in line with EMC instruction (2014/30/EU), in line with or exceed IEC61326-1: 2013/EN61326-1: 2013 Group 1 Class A standard	
	CISPR 11/EN 55011	
	IEC 61000-4-2:2008/EN 61000-4-2	±4.0 kV (contact discharge), ±8.0 kV (air discharge)
	IEC 61000-4-3:2002/EN 61000-4-3	3 V/m (80 MHz to 1 GHz); 3 V/m (1.4 GHz to 2 GHz); 1 V/m (2.0 GHz to 2.7 GHz)
	IEC 61000-4-4:2004/EN 61000-4-4	1 kV power lines
	IEC 61000-4-5:2001/EN 61000-4-5	0.5 kV (phase to neutral); 1 kV (phase to PE); 1 kV (neutral to PE)
	IEC 61000-4-6:2003/EN 61000-4-6	3 V, 0.15-80MHz
	IEC 61000-4-11:2004/EN 61000-4-11	voltage dip: 0% UT during half cycle; 0% UT during 1 cycle; 70% UT during 25 cycles short interruption: 0% UT during 250 cycles
Electrical safety		IEC 61010-1:2010 (Third Edition)/EN 61010-1:2010, UL 61010-1:2012 R4.16 and CAN/CSA-C22.2 NO. 61010-1-12+ GI1+ GI2

Dimensions	
(W x H x D)	361.6 mm × 178.8 mm × 128 mm (14.2 in × 7.0 in × 5.0 in)

Weight				
	DSA815	DSA832	DSA875	DSA832E
Standard	4.25 kg (9.4 lb)	4.55 kg (10.0 lb)		
With tracking generator		5.15 kg (11.4 lb)		

Calibration Interval	
Recommended calibration interval	18 months

▶ Ordering Information

	Description	Order Number
Model	spectrum analyzer, 9 kHz to 1.5 GHz	DSA815
	spectrum analyzer, 9 kHz to 3.2 GHz	DSA832
	spectrum analyzer, 9 kHz to 7.5 GHz	DSA875
	spectrum analyzer, 9 kHz to 3.2 GHz	DSA832E
	spectrum analyzer, 9 kHz to 1.5 GHz (with tracking generator, factory installed)	DSA815-TG
	spectrum analyzer, 9 kHz to 3.2 GHz (with tracking generator, factory installed)	DSA832-TG
	spectrum analyzer, 9 kHz to 7.5 GHz (with tracking generator, factory installed)	DSA875-TG
	spectrum analyzer, 9 kHz to 3.2 GHz (with tracking generator, factory installed)	DSA832E-TG
Standard accessories	power cable	-
Options	EMI filter & quasi-peak detector	EMI-DSA800
	Advanced measurement kit	AMK-DSA800
	VSWR measurement kit	VSWR-DSA800
	DSA PC software	Ultra Spectrum
	EMI Pre-compliance test software	S1210 EMI Pre-compliance Software
	ASK-FSK Demodulation Analysis (only for DSA832/DSA875/DSA832E)	S1220 ASK-FSK Demodulation Analysis Software
	signal seamless capture (only for DSA815)	SSC-DSA
Optional accessories	include: N-SMA cable, BNC-BNC cable, N-BNC adaptor, N-SMA adaptor, 75 Ω to 50 Ω adaptor, 900 MHz/1.8 GHz antenna (2pcs), 2.4 GHz antenna (2pcs)	DSA Utility Kit
	include: N(F)-N(F) adaptor (1pcs), N(M)-N(M) adaptor (1pcs), N(M)-SMA(F) adaptor (2pcs), N(M)-BNC(F) adaptor (2pcs), SMA(F)-SMA(F) adaptor (1pcs), SMA(M)-SMA(M) adaptor (1pcs), BNC T type adaptor (1pcs), 50 Ω SMA load (1pcs), 50 Ω BNC impedance adaptor (1pcs)	RF Adaptor Kit
	include: 50 Ω to 75 Ω adaptor (2pcs)	RF CATV Kit
	include: 6 dB attenuator (1pcs), 10 dB attenuator (2pcs)	RF Attenuator Kit
	30 dB high power attenuator, max. power 100 W	ATT03301H
	N(M)-N(M) RF cable	CB-NM-NM-75-L-12G
	N(M)-SMA(M) RF cable	CB-NM-SMAM-75-L-12G
	RF demo kit (transmitter)	TX1000
	RF demo kit (receiver)	RX1000
	VSWR bridge, 1 MHz to 3.2 GHz	VB1032
	VSWR bridge, 800 MHz to 4 GHz	VB1040
	VSWR bridge, 2 GHz to 8 GHz	VB1080
	near field probe	NFP-3
	rack mount kit	RM-DSA800
	soft carrying bag	BAG-G1
	USB cable	CB-USBA-USBB-FF-150
	USB to GPIB interface converter for instrument	USB-GPIB

Warranty

Three-year warranty, excluding probes and accessories.

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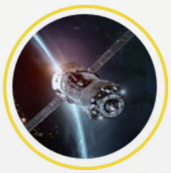
Industrial Intelligent Manufacturing

Semiconductors

Education& Research

Communication

System Integration



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DSD07107-1110-2026-07