



- 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-TG)
- Optional Preamplifier (DSA832/875)
- 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 Series Spectrum Analyzer



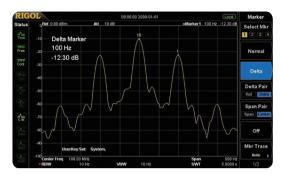
Product Dimensions: Width X Height X Depth = 361.6 mm x 178.8 mm x 128 mm

### Benefits of Rigol's all digital IF design

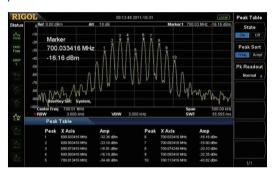
- The ability to measure smaller signals: on the basis of this technology, the IF filter enables smaller bandwidth settings, which greatly reduce the displayed average noise level.
- The ability to distinguish between small signals by frequency: using the IF filter with the smallest bandwidth setting, 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

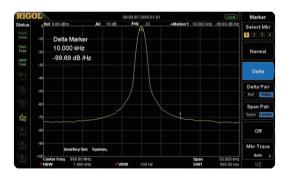
Distinguish the two nearby signals clearly with the 10 Hz RBW



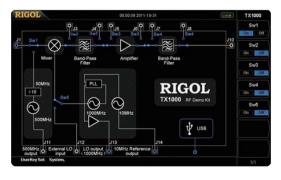
Readout the spectrum peak values with the peak table function



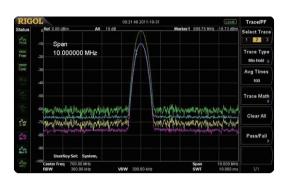
Phase noise < -98 dBc/Hz @10 kHz offset (DSA832/875)



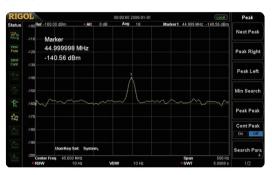
The GUI to control the RF demo kit (Transmitter) directly



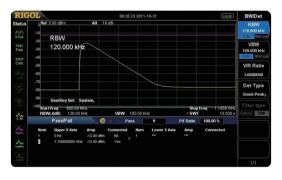
Compare the spectrums with different color trace



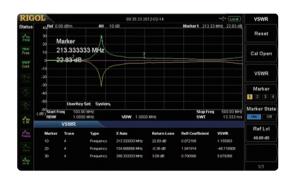
Measure lower level signal with the preamplifier turn on



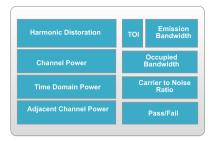
EMI kit (EMI filter & Quasi-peak & Pass/Fail)



VSWR measurement



# ► RIGOL Spectrum Analyzer Option and Accessory



Advanced Measurement Kit ( AMK-DSA800 )



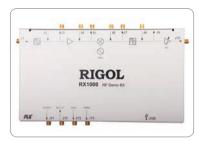
Rack Mount Kit (RM-DSA800)



VSWR Bridge (VB1020/VB1032/VB1040/VB1080



RF Demo Kit (TX1000)



RF Demo Kit (RX1000)



RF CATV Kit



DSA Utility Kit



RF Adaptor Kit



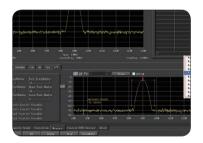
RF Attenuator Kit



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



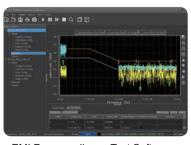
High Power Attenuator (ATT03301H)



DSA PC Software ( Ultra Spectrum )



USB to GPIB Converter (USB-GPIB)



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 °C to 50 °C 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°C). 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°C).

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°C).

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
Frequency range	9 kHz to 1.5 GHz	9 kHz to 3.2 GHz	9 kHz to 7.5 GHz
Frequency resolution	1 Hz		

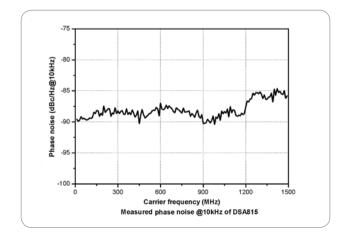
Internal Reference Frequency				
	DSA815	DSA832	DSA875	
Reference frequency	10 MHz	10 MHz		
Accuracy	± [(time since last adjustment × aging rate) + to	± [(time since last adjustment × aging rate) + temperature stability + calibration accuracy]		
Initial calibration accuracy	<1 ppm			
0°C to 50°C, reference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

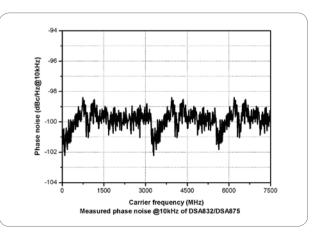
Frequency Readout Accuracy	
Marker resolution	span/ (number of sweep points - 1)
Marker uncertainty	$\pm$ (frequency indication $\times$ frequency reference uncertainty $+$ 1% $\times$ span $+$ 10% $\times$ resolution bandwidth $+$ marker resolution)

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)

20°C to 30°C , f <sub>c</sub> =1 GHz		
DSA815	DSA832	DSA875
<-80 dBc/Hz	<-98 dBc/Hz	
<-100 dBc/Hz (typ.)	<-100 dBc/Hz (typ.)	
	DSA815 <-80 dBc/Hz	DSA815 DSA832 <-80 dBc/Hz <-98 dBc/Hz





Residual FM			
$20^{\circ}$ C to $30^{\circ}$ C , RBW = VBW = 1 kHz			
	DSA815	DSA832	DSA875
Residual FM	<50 Hz (nom.)	<20 Hz (nom.)	

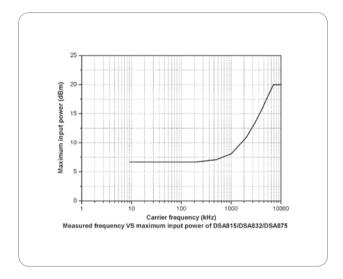
Bandwidths			
	Set "Auto SWT" to "Accy"		
	DSA815	DSA832	DSA875
Resolution bandwidth (-3 dB)	10 Hz to 1 MHz, in 1-3-10 sequence		
RBW uncertainty	<5% (nom.)		
Resolution filter shape factor (60 dB: 3 dB)	<5 (nom.)		
Video bandwidth (-3 dB)	1 Hz to 3 MHz, in 1-3-10 sequence		
Resolution bandwidth (-6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

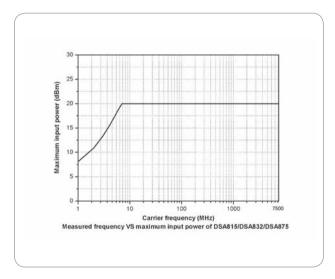
# **Amplitude**

Measurement Range	
Panga	f <sub>c</sub> ≥ 10 MHz
Range	DANL to +20 dBm

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

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

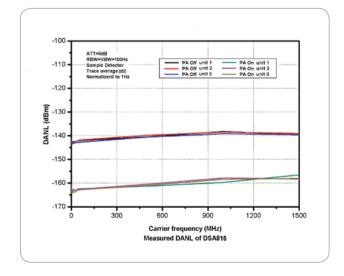


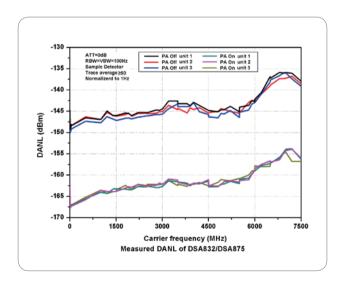


Displayed Average Noise Level (DANL)			
DSA815		DSA815	
Frequency attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average $\geq$ 50, tracking generator $20^{\circ}$ C to $30^{\circ}$ C, input impendence = $50^{\circ}$ Ω		attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average ≥ 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.)	
FA OII	1 MHz to 1.5 GHz	<-130 dBm + 6 × (f/1 GHz) dB, <-135 dBm (typ.)	

Displayed Av	erage Noise Level (DANL)		
		DSA832	DSA875
Frequency	attenuation = 0 dB, RBW = VBW = 10 Hz, sample detector, trace average $\geq$ 50, generator off, 20°C to 30°C, input impendence = 50 $\Omega$		Hz, sample detector, trace average $\geq$ 50, tracking dence = 50 $\Omega$
	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.)
PA off	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.)
	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.)
PA on	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.)

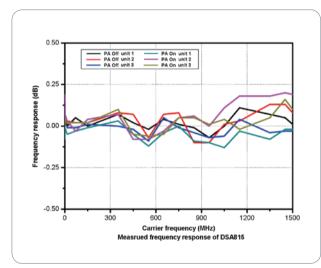
Display	ed Average Noise Leve	el (DANL) (Normalized to 1Hz )			
		DSA815	DSA832	DSA875	
Freque	ency	attenuation = 0 dB, RBW = VBW = 100 Hz, sample detector, trace average $\geq$ 50, tracking generator off, normalized to 1Hz, 20°C to 30°C, input impendence = 50 $\Omega$			
	9 kHz to 100 kHz		<-120 dBm (typ.)	<-120 dBm (typ.)	
	100 kHz to 1 MHz	<-110 dBm, <-130 dBm (typ.)	<-135 dBm, <-138 dBm (typ.)	<-135 dBm,	
	1 MHz to 5 MHz	$<-130 \text{ dBm} + 6 \times (f/1 \text{ GHz}) \text{ dB},$	<-136 dBill (typ.)	<-138 dBm (typ.)	
PA off	5 MHz to 1.5 GHz	<-135 dBm (typ.)	<-140 dBm,	<-140 dBm,	
FA OII	1.5 GHz to 3.2 GHz		<-144 dBm (typ.)	<-144 dBm (typ.)	
	3.2 GHz to 6 GHz			<-136 dBm, <-140 dBm (typ.)	
	6 GHz to 7.5 GHz			<-131 dBm, <-135 dBm (typ.)	
	100 kHz to 1 MHz	<-130 dBm, <-150 dBm (typ.)	<-152 dBm (typ.)	<-152 dBm (typ.)	
	1 MHz to 5 MHz	<-150 dBm + 6 × (f/1 GHz) dB,	<-152 dBm, <-155 dBm (typ.)	<-152 dBm, <-155 dBm (typ.)	
	5 MHz to1.5 GHz	<-155 dBm (typ.)	<-157 dBm,	<-157 dBm,	
PA on	1.5 GHz to 3.2 GHz		<-161 dBm (typ.)	<-161 dBm (typ.)	
	3.2 GHz to 6 GHz			<-153 dBm, <-157 dBm (typ.)	
	6 GHz to 7.5 GHz			<-148 dBm, <-152 dBm (typ.)	

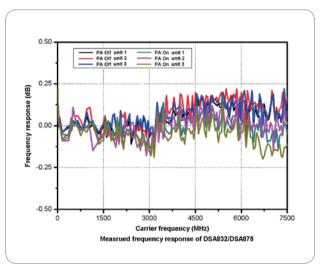




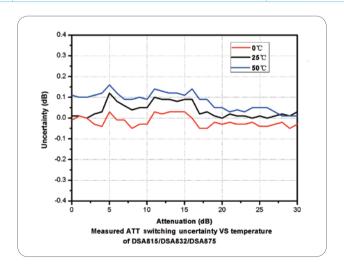
Level Display	Level Display			
Logarithmic level axis	1 dB to 200 dB			
Linear level axis	0 to reference level			
Number of display points	601			
Number of traces	3 + math trace			
Trace detectors	normal, positive-peak, negative-peak, sample, RMS, voltage average			
Trace detectors	quasi-peak (with EMI-DSA800 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	
Frequenc	cy response	$f_c \ge 100$ kHz, attenuation = 10 dB, relative	to 50 MHz, 20°C to 30°C	50 MHz, 20℃ to 30℃	
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.)	
	1.5 GHz to 3.2 GHz		<0.5 dB, <0.3 dB (typ.)	<0.5 db, <0.5 db (typ.)	
	3.2 GHz to 7.5 GHz			<0.7 dB, <0.3 dB (typ.)	
		$f_c \ge 1$ MHz, attenuation = 10 dB, relative to	50 MHz, 20℃ to 30℃		
	100 kHz to 1.5 GHz	<1.0 dB	<0.7 dB, <0.3 dB (typ.)	-0.7 dD -0.2 dD /+ va \	
PA on	1.5 GHz to 3.2 GHz		<0.7 aв, <0.3 aв (typ.)	<0.7 dB, <0.3 dB (typ.)	
	3.2 GHz to 7.5 GHz			<0.9 dB, <0.3 dB (typ.)	





Input Attenuation Switching Uncertainty				
,	DSA815	DSA832	DSA875	
Setting range	0 to 30 dB, in 1 dB step			
Custohing uncertainty	f <sub>c</sub> =50 MHz, relative to 10 dB, 20 °C to 30 °C			
Switching uncertainty	<0.5 dB	<0.3 dB		



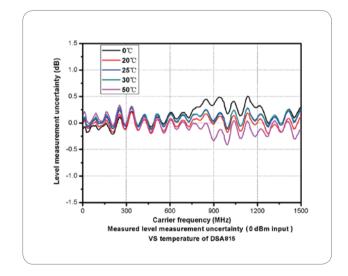
Absolute Amplitude Uncertainty				
	DSA815	DSA832	DSA875	
Uncertainty	$f_c$ = 50 MHz, peak detector, preamplifier off, atten 20 °C to 30 °C	uation = 10 dB, input signa	al level = -10 dBm,	
-	<0.4 dB	<0.3 dB		

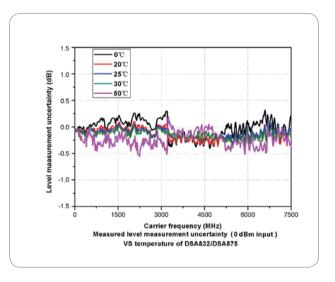
RBW Switching Uncertainty		
Lincortainty	relative to 1 kHz RBW	
Uncertainty	<0.1 dB	

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

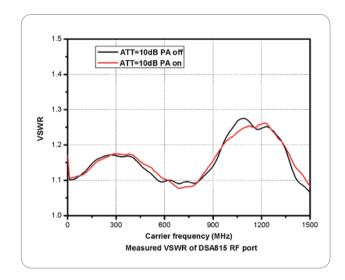
Preamplifier				
		DSA815 (standard)	PA-DSA832 (option)	PA-DSA875 (option)
	100 kHz to 1.5 GHz	20 dB (nom.)	17 dB (nom.)	17 dB (nom.)
Gain	1.5 GHz to 3.2 GHz			
	3.2 GHz to 7.5 GHz			

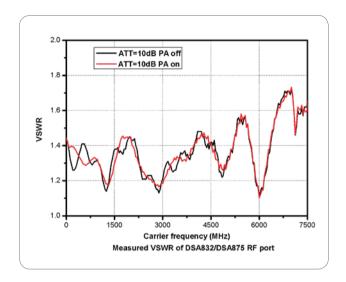
Level Measurement Uncertainty				
	DSA815	DSA832	DSA875	
	95% confidence level, S/N>20 dB, RBW = VBW = preamplifier off, attenuation = 10 dB, -50 dBm < i	•	MHz, 20 °C to 30 °C	
Level measurement uncertainty	<1.5 dB (nom.)	<0.8 dB (nom.)		





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



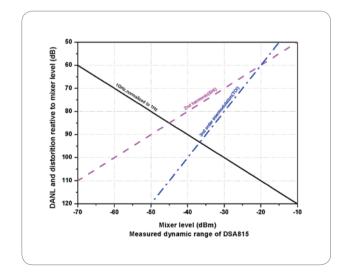


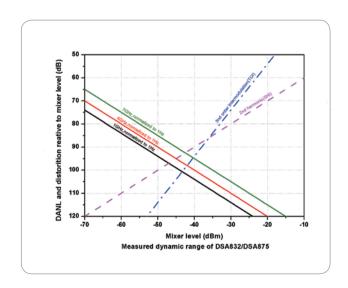
#### **Distortion**

Second Harmonic Intercept				
	DSA815	DSA832	DSA875	
Second harmonic intercept (SHI)	f <sub>c</sub> ≥ 50 MHz, input signal level = -20 dBm, attenuation = 10 dB			
Second Harmonic Intercept (SHI)	+40 dBm	+45 dBm		

Third-order Intercept					
	DSA815	DSA832	DSA875		
Third-order intercept (TOI)	$f_c \ge 50$ MHz, two -20 dBm tones at input mixer spaced by 200 kHz, attenuation = 10 dB				
mind-order intercept (101)	+10 dBm	+11 dBm, +15 dBm (	typ.)		

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





Spurious Responses				
Churique reanence	DSA815	DSA	332	DSA875
	input terminated 50 Ω, attenuation	input terminated 50 Ω, attenuation = 0 dB, 20°C to 30°C		
Spurious response	<-88 dBm (typ.)		<-90 dBm <sup>[1]</sup> ,	
	1 00 dBill (typ.)	<-100	<-100 dBm (typ.)	
Intermediate frequency	<-60 dBc	<-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			
logert valated agreeins	mixer level = -30 dBm	mixer level = -30 dBm		
Input related spurious	<-60 dBc	<-60 dBc		

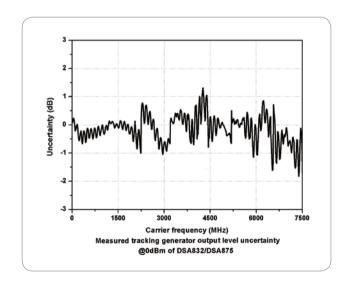
NOTE: [1] Except the internal local oscillator (1820 MHz) and its harmonics.

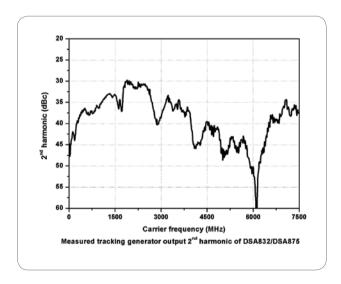
#### **Sweep**

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

# **Tracking Generator (Option)**

TG Output			
	DSA815	DSA832	DSA875
Frequency range	100 kHz to 1.5 GHz	100 kHz to 3.2 GHz	100 kHz to 7.5 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		
Output flatness	±3 dB (nom.)		





## **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 Conne	ectors	
DE input	impedance	50 Ω (nom.)
RF input	connector	N female
Tracking	impedance	50 Ω (nom.)
generator output	connector	N female

Internal/ Externa	l Reference	
	frequency	10 MHz
Internal	output level	+3 dBm to +10 dBm, +8 dBm (typ.)
reference	impedance	50 Ω (nom.)
	connector	BNC female
	frequency	10 MHz ±5 ppm
External	input level	0 dBm to +10 dBm
reference	impedance	50 Ω (nom.)
	connector	BNC female

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

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

# **General Specifications**

Display	
Туре	TFT LCD
Resolution	800 x 480 pixels
Size	8 inch

Colors		64 k			
Printer Supported	d				
Protocol		PictBridge			
Mass Memory					
Mass memory		flash disk (internal), USB storage device	e (not supplied)		
Power Supply					
Input voltage ran	-	100 V to 240 V (nom.)			
AC supply freque	ency	45 Hz to 440 Hz			
Power consumpt	ion	35 W (typ.), max. 50 W with all options			
		max. 50 W with all options			
Consideration of the last					
Environmental	operating				
<b>-</b>	temperature range	0°C to 50°C			
Temperature	Storage	-20°C to 70°C			
	temperature range				
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				
	in line with EN61326- IEC 61000-4-2:2001		nir dischargo)		
	IEC 61000-4-2:2001	$\pm 4.0$ kV (contact discharge), $\pm 4.0$ kV (3 V/m (80 MHz to 1 GHz)	air discharge)		
	IEC 61000-4-3:2002	3 V/m (1.4 GHz to 2 GHz)			
		1 V/m (2.0 GHz to 2.7 GHz)			
	IEC 61000-4-4:2004	1 kV power lines			
EMO		0.5 kV (phase to neutral)			
EMC	IEC 61000-4-5:2001	0.5 kV (phase to PE)			
	IEC 61000-4-6:2003	1 kV (neutral to PE)			
	100 01000-4-0:2003	3 V,0.15-80 MHz voltage dip:			
	IEC (1000 4	0% UT during half cycle			
	IEC 61000-4- 11:2004	0% UT during 1 cycle			
	11.2001	70% UT during 25 cycles			
		short interruption:0% UT during 250 c	ycies		
Electrical safety		in line with UL 61010-1:2012, CAN/CSA-C22.2 No	61010-1-12 FN 61010-1:	2010	
		22 3 10 10 1.20 12, O/ W/OO/ COLE.2 NO	5.515 1 12, 214 01010-1.1		
Dimensions					
		361.6 mm × 178.8 mm × 128 mm			
(W x H x D)		(14.2 in × 7.0 in × 5.0 in)			
Weight					
- J		DSA815	DSA832	DSA875	
Standard		4.25 kg (0.4 lb)	4.55 kg (10.0 lb)	<u> </u>	
With tracking ger	nerator	4.25 kg (9.4 lb)	5.15 kg (11.4 lb)		
Calibration Interv					

# ➤ Ordering Information

	Description	Order Number
Model	spectrum analyzer, 9 kHz to 1.5 GHz (with preamplifier)	DSA815
	spectrum analyzer, 9 kHz to 3.2 GHz	DSA832
	spectrum analyzer, 9 kHz to 7.5 GHz	DSA875
	spectrum analyzer, 9 kHz to 1.5 GHz (with preamplifier, 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
Standard	quick guide (hard copy)	-
accessories	power cable	-
Options	preamplifier, 100 kHz to 3.2 GHz (only for DSA832)	PA-DSA832
	preamplifier, 100 kHz to 7.5 GHz (only for DSA875)	PA-DSA875
	EMI filter & quasi-peak detector	EMI-DSA800
	Advanced measurement kit	AMK-DSA800
	VSWR measurement kit	VSWR-DSA800
	PC software for EMI Pre-Competible testing	EMI Test System
	DSA PC software	Ultra Spectrum
	signal seamless capture (only for DSA815)	SSC-DSA
Optional accessories	include: N-SMA cable, BNC-BNC cable, N-BNC adaptor, N-SMA adaptor, 75 $\Omega$ to 50 $\Omega$ 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 $\Omega$ SMA load (1pcs), 50 $\Omega$ BNC impedance adaptor (1pcs)	RF Adaptor Kit
	include: 50 $\Omega$ to 75 $\Omega$ 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 2 GHz	VB1020
	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
	EMI Pre-compliance test software	S1210 EMI Pre-compliance Software
	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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