

RIGOL



DSG3000B Series RF Signal Generator

- Highest frequency: 6.5 GHz/13.6 GHz
- Amplitude accuracy: <math><0.5\text{ dB}</math> (typical)
- Output amplitude range: -130 dBm to +27 dBm (setting range)
- High signal purity, phase noise: <math><-116\text{ dBc/Hz}</math>@20 kHz (typical)
- Standard 1 ppm internal clock; optional 5 ppb high stable clock
- Standard AM/FM/ Φ M analog modulation
- Support pulse modulation; on/off ratio up to 70 dB; user-defined pulse train generator
- I/Q modulation and I/Q baseband output
- All modulations support internal and external modulation modes
- Standard 2U height design to save rack space; rack mount kit is available
- Support USB/LAN/GPIB remote control; SCPI command set
- Wear-free electronic attenuator design

4TECT

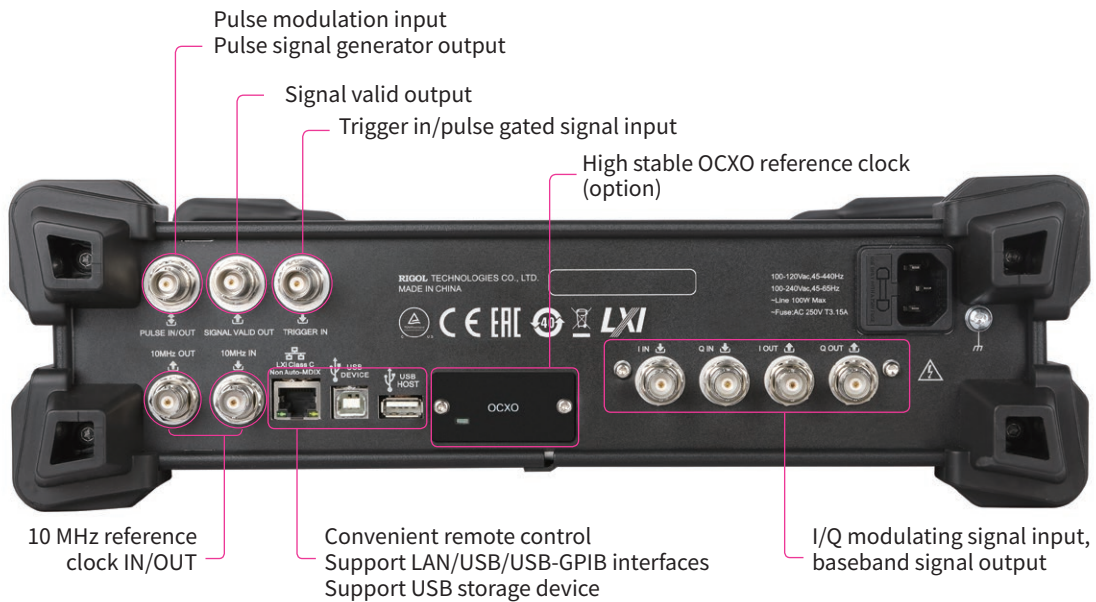
ООО «4TECT»

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► DSG3000B Series RF Signal Generator



Specifications

The technical specifications are valid when the instrument is within the calibration period, is stored for at least two hours at the temperature ranging from 0°C to 50°C and is warmed up for 40 minutes. Unless otherwise noted, the specifications in this manual include the measurement uncertainty.

Typical Value (typ.): the typical performance that 80 percent of the measurement results can meet at room temperature (approximately 25°C). The data are not warranted and do not include the measurement uncertainty.

Nominal Value (nom.): the expected average performance or the designed performance attribute, such as the 50 Ω connector. The data are not warranted and are measured at room temperature (approximately 25°C).

Measured Value (meas.): the performance attribute measured during the design phase used to be compared with the expected performance, such as the variation of the amplitude drift with time. The data are not warranted and are measured at room temperature (approximately 25°C).

Note: Unless otherwise noted, all the values in this manual are the measurement results of multiple instruments at room temperature.

Frequency

| Frequency Range | |
|-----------------|---|
| DSG3065B | 9 kHz to 6.5 GHz |
| DSG3065B-IQ | 9 kHz to 6.5 GHz (IQ: 50 MHz to 6.5 GHz) |
| DSG3136B | 9 kHz to 13.6 GHz |
| DSG3136B-IQ | 9 kHz to 13.6 GHz (IQ: 50 MHz to 6.5 GHz) |

| Frequency | |
|-----------------------------|----------------|
| Frequency resolution | 0.01 Hz |
| Setting time ^[1] | < 10 ms (typ.) |

| Frequency Band | | |
|----------------|---|------------------|
| Band | Frequency range | N ^[2] |
| 1 | $f < 227.5 \text{ MHz}$ | 0.25 |
| 2 | $227.5 \text{ MHz} \leq f < 455 \text{ MHz}$ | 0.125 |
| 3 | $455 \text{ MHz} \leq f < 910 \text{ MHz}$ | 0.25 |
| 4 | $910 \text{ MHz} \leq f < 1820 \text{ MHz}$ | 0.5 |
| 5 | $1820 \text{ MHz} \leq f \leq 3600 \text{ MHz}$ | 1 |
| 6 | $3600 \text{ MHz} < f \leq 6500 \text{ MHz}$ | 2 |
| 7 | $6500 \text{ MHz} < f \leq 13600 \text{ MHz}$ | 4 |

| Internal Reference Frequency | | |
|-------------------------------------|--|------------------------|
| Reference frequency | 10 MHz | |
| Initial calibration accuracy | | $\leq 0.1 \text{ ppm}$ |
| | With option OCXO-B08 | $\leq 10 \text{ ppb}$ |
| Temperature stability | Temperature range: 0°C to 50°C , reference to 25°C | < 1 ppm |
| | With option OCXO-B08 | < 5 ppb |
| Aging rate | | < 1 ppm/year |
| | With option OCXO-B08 | < 30 ppb/year |
| Internal reference frequency output | Frequency | 10 MHz |
| | Level | +5 dBm to +10 dBm |
| External reference frequency input | Frequency | 10 MHz |
| | Level | 0 dBm to +10 dBm |
| | Maximum deviation | $\pm 5 \text{ ppm}$ |

Note:

[1] Time from receipt of SCPI command to within 0.1 ppm of final frequency (final frequency $\geq 227.5 \text{ MHz}$) or within 100 Hz (final frequency < 227.5 MHz).

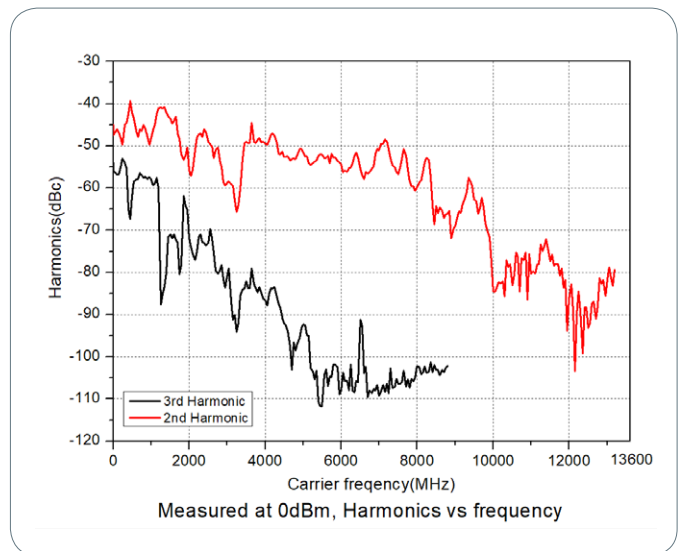
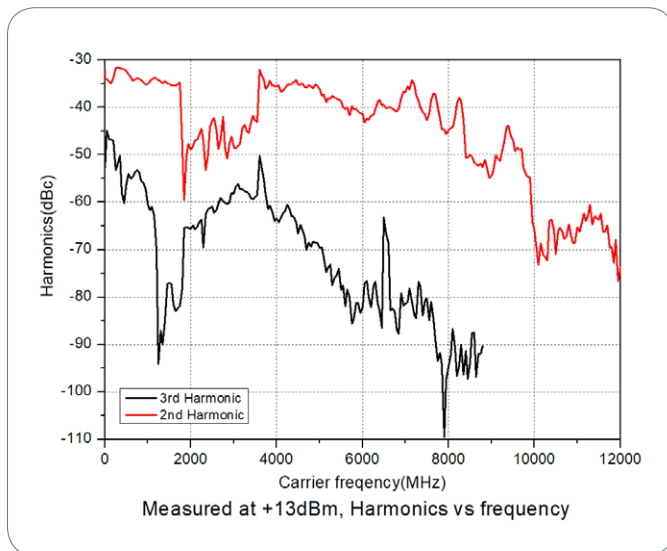
[2] N is a factor used to help define certain specifications in this manual.

Frequency Sweep

| | | |
|------------------|--|------------|
| Sweep type | Step sweep (equally or logarithmically spaced frequency steps) List sweep (list with arbitrary frequency steps) | |
| Sweep mode | Single, continuous | |
| Sweep range | Full frequency range | |
| Sweep shape | Triangle, ramp | |
| Step change | Linear or logarithmic | |
| Number of points | Step sweep | 2 to 65535 |
| | List sweep | 1 to 6001 |
| Dwell time | 20 ms to 100 s | |
| Trigger mode | Auto, key, external, bus (USB and LAN) | |

Spectral Purity^[1]

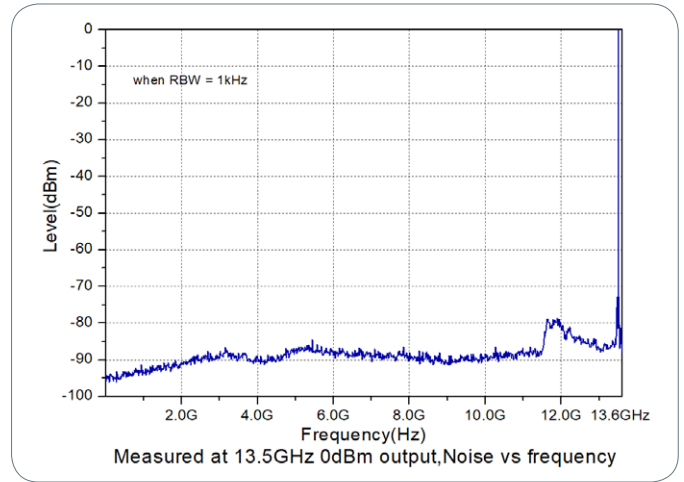
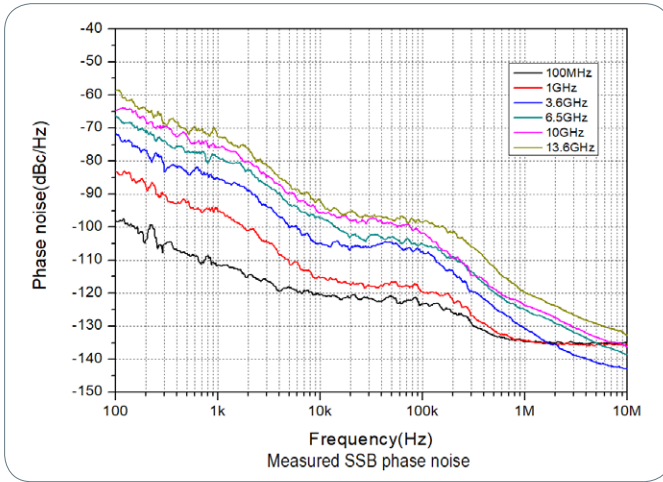
| | | |
|-----------------------------|--|-------------------------------------|
| Harmonic | CW mode | |
| | 2 MHz < f ≤ 6.5GHz, level ≤ +13 dBm | < -30 dBc |
| | 6.5 GHz < f ≤ 12 GHz, level ≤ +10 dBm | < -30 dBc |
| | 12 GHz < f ≤ 13.6 GHz, level ≤ 2 dBm | < -30 dBc |
| Sub-harmonic ^[2] | CW mode | |
| | 3.6 GHz < f ≤ 13.6 GHz | < -60 dBc, < -70 dBc (typ.) |
| Non-harmonic | CW mode, level > -10 dBm, carrier offset > 10 kHz | |
| | 100 kHz ≤ f ≤ 1.5 GHz | < -60 dBc, < -70 dBc (typ.) |
| | 1.5 GHz < f ≤ 3.6 GHz | < -54 dBc, < -64 dBc (typ.) |
| | 3.6 GHz < f ≤ 6.5 GHz | < -48 dBc, < -58 dBc (typ.) |
| | 6.5 GHz < f ≤ 13.6 GHz | < -42 dBc, < -52 dBc (typ.) |
| SSB phase noise | CW mode, carrier offset = 20 kHz, 1 Hz measurement bandwidth | |
| | f=1 GHz | < -110 dBc/Hz, < -116 dBc/Hz (typ.) |
| | f=6.5 GHz | < -98 dBc/Hz, < -102 dBc/Hz (typ.) |
| | f=13.6 GHz | < -92 dBc/Hz, < -96 dBc/Hz (typ.) |
| Residual FM | CW mode, RMS value at f = 1 GHz | |
| | 0.3 kHz to 3 kHz | < 10 Hz rms, < 5 Hz rms (typ.) |
| | 0.03 kHz to 20 kHz | < 50 Hz rms, < 10 Hz rms (typ.) |



Note:

[1] Applicable to instrument without IQ function.

[2] When level ≥ -50 dBm.



Amplitude

Setting Range

| | | Specification level range | Setting range |
|-------------------------------------|-----------------------|---------------------------|---------------|
| Maximum output level ^[1] | 9 kHz ≤ f < 100 kHz | | +5 dBm |
| | 100 kHz ≤ f ≤ 1MHz | +10 dBm | +15 dBm |
| | 1 MHz < f ≤ 200 MHz | +13 dBm | +20 dBm |
| | 200 MHz < f ≤ 3.6 GHz | +13 dBm | +27 dBm |
| | 3.6 GHz < f ≤ 6.5 GHz | +13 dBm | +20 dBm |
| | 6.5 GHz < f ≤ 12 GHz | +10 dBm | +15 dBm |
| | 12 GHz < f ≤ 13.6 GHz | +2 dBm | +10 dBm |
| Minimum output level | 9 kHz ≤ f < 100 kHz | | -130 dBm |
| | 100 kHz ≤ f ≤ 3.6 GHz | -110 dBm | -130 dBm |
| | 3.6 GHz < f ≤ 6.5 GHz | -110 dBm | -130 dBm |
| | 6.5 GHz < f ≤ 9 GHz | -110 dBm | -130 dBm |
| | 9 GHz < f ≤ 13.6 GHz | -90 dBm | -110 dBm |
| Setting Resolution | 0.01 dB | | |

Absolute Level Uncertainty

Temperature range: 20°C to 30°C

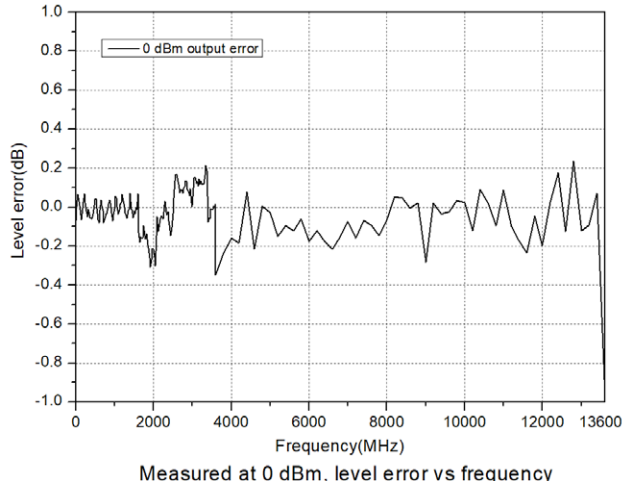
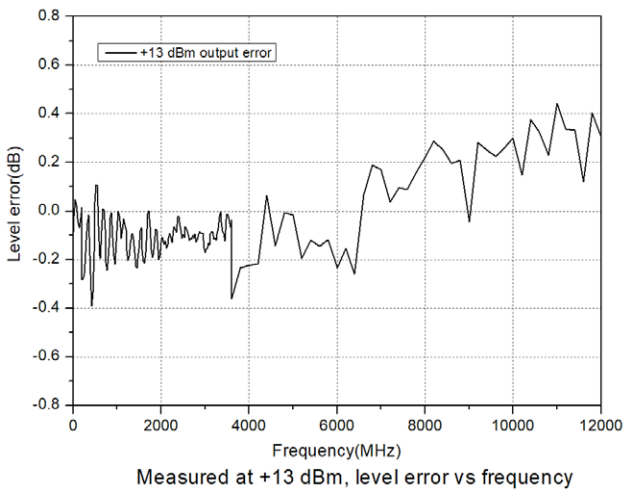
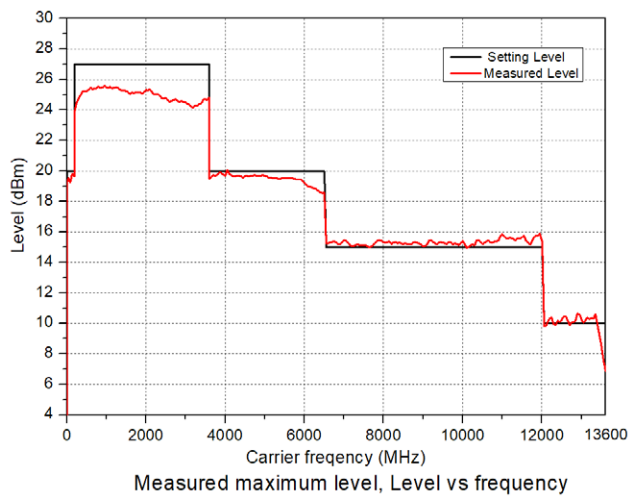
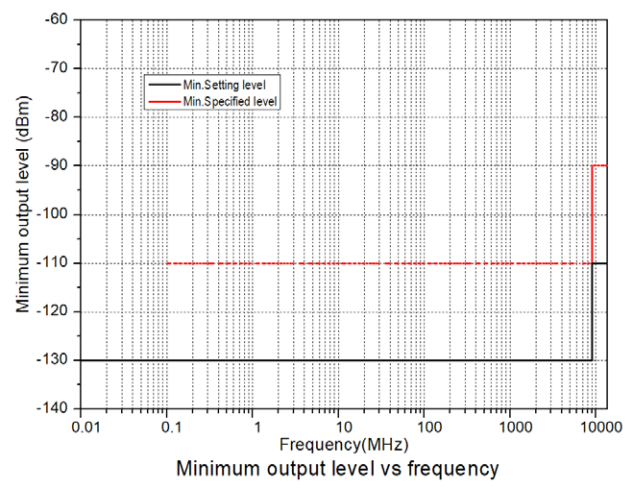
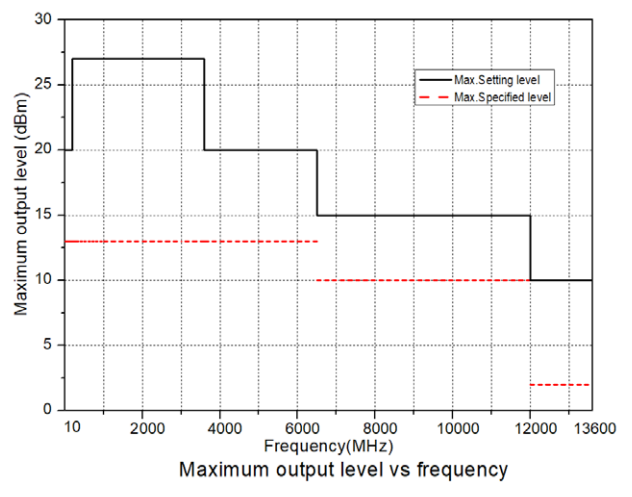
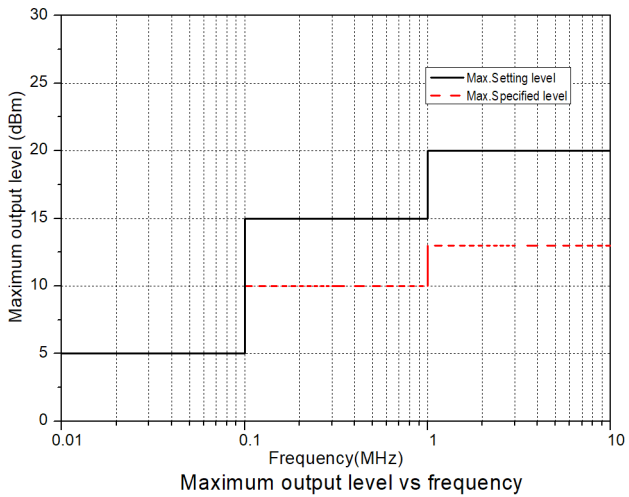
| | -60 dBm to max. specification level | -90 dBm to -60 dBm | -110 dBm to -90 dBm |
|-----------------------|-------------------------------------|---------------------------|---------------------------|
| 9 kHz ≤ f < 100 kHz | ≤ 0.7 (typ.) | ≤ 0.7 (typ.) | ≤ 0.7 (typ.) |
| 100 kHz ≤ f ≤ 200 MHz | ≤ 0.7 dB, ≤ 0.5 (typ.) | ≤ 0.9 dB, ≤ 0.5 (typ.) | ≤ 1.1 dB, ≤ 0.5 (typ.) |
| 200 MHz < f ≤ 3.6 GHz | ≤ 0.7 dB, ≤ 0.5 (typ.) | ≤ 0.9 dB, ≤ 0.5 (typ.) | ≤ 1.1 dB, ≤ 0.5 (typ.) |
| 3.6 GHz < f ≤ 6.5 GHz | ≤ 0.9 dB, ≤ 0.5 (typ.) | ≤ 1.1 dB, ≤ 0.5 (typ.) | ≤ 1.3 dB, ≤ 0.5 (typ.) |
| 6.5 GHz < f ≤ 9 GHz | ≤ 1.1 dB, ≤ 0.5 (typ.) | ≤ 1.3 dB, ≤ 0.5 (typ.) | ≤ 1.5 dB, ≤ 0.7 (typ.) |
| 9 GHz < f ≤ 12 GHz | ≤ 1.3 dB, ≤ 0.5 (typ.) | ≤ 1.5 dB, ≤ 0.5 (typ.) | |
| 12 GHz < f ≤ 13.6 GHz | ≤ 1.5 dB, ≤ 0.7 (typ.) | ≤ 1.8 dB, ≤ 0.7 (typ.) | |

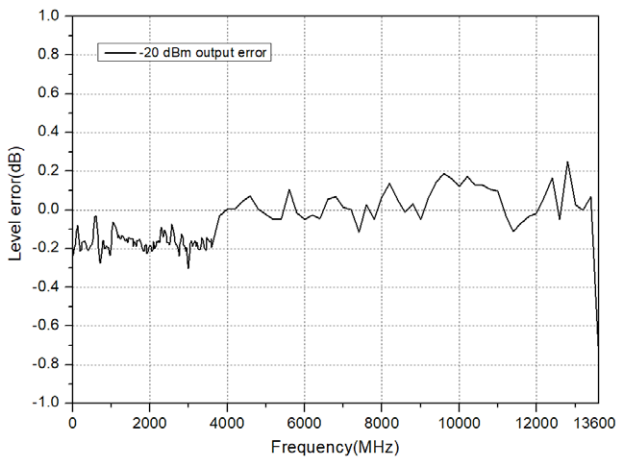
VSWR

| | |
|----------------------|--------------|
| 1 MHz ≤ f ≤ 13.6 GHz | < 1.8 (typ.) |
|----------------------|--------------|

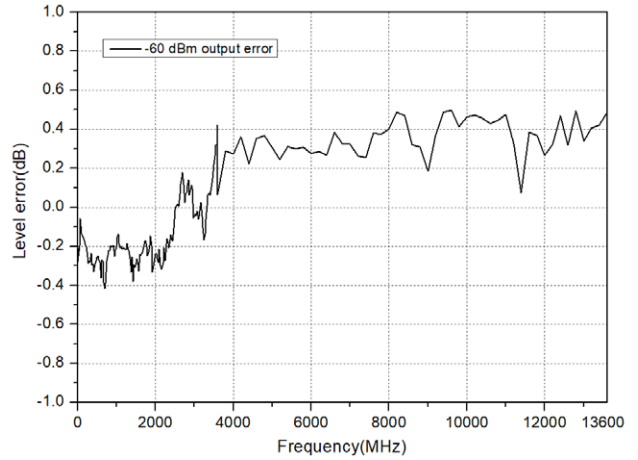
Note:

[1] Typical maximum output level up to +25 dBm when output frequency ≥ 10 MHz.

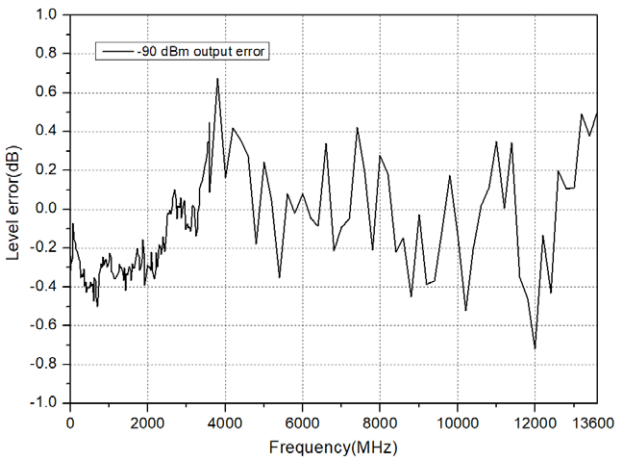




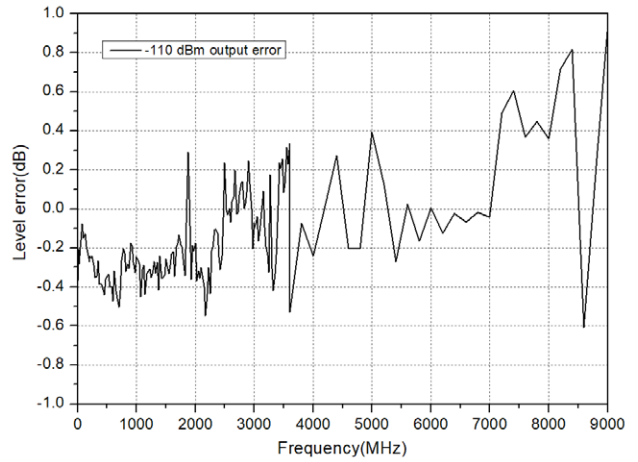
Measured at -20 dBm, level error vs frequency



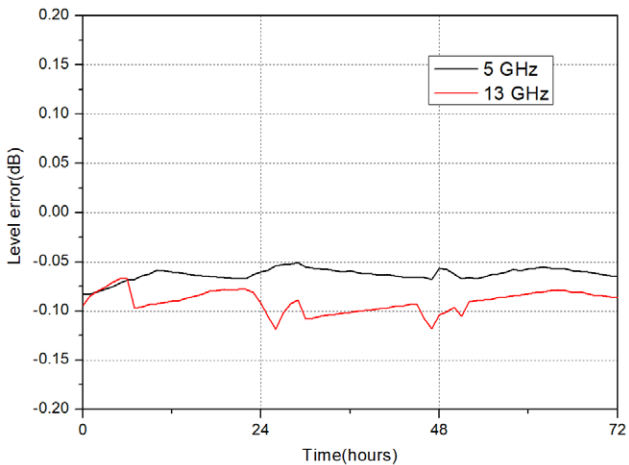
Measured at -60 dBm, level error vs frequency



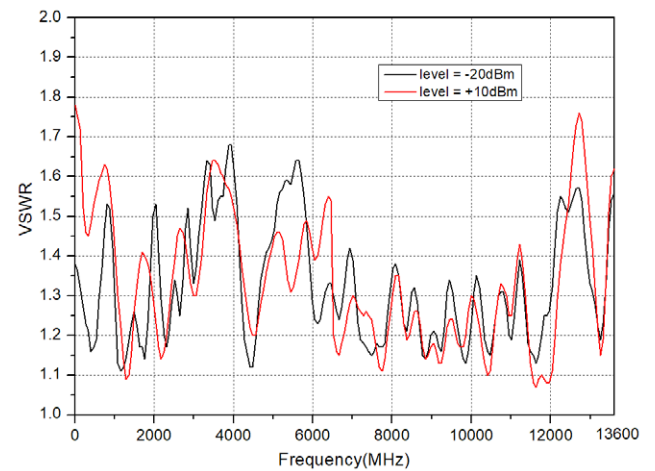
Measured at -90 dBm, level error vs frequency



Measured at -110 dBm, level error vs frequency



Measured level repeatability at 0dBm, ALC ON, 25°C



Measured VSWR, VSWR vs frequency

| Level Setting | | |
|-----------------------------|--|---------------|
| Setting time ^[1] | Fixed frequency, temperature range: 20°C to 30°C | ≤ 5 ms (typ.) |

| Max. Reverse Power | | |
|--------------------|----------------------|------|
| Max. reverse power | Max. DC voltage | 50 V |
| | 1 MHz < f ≤ 13.6 GHz | 1 W |

| Level Sweep | | |
|------------------|---|------------|
| Sweep type | Step sweep (equally spaced level steps) List sweep (list with arbitrary level steps) | |
| Sweep mode | Single, continuous | |
| Sweep range | Full level range | |
| Sweep shape | Triangle, ramp | |
| Step change | Linear | |
| Number of points | Step sweep | 2 to 65535 |
| | List sweep | 1 to 6001 |
| Dwell time | 20 ms to 100 s | |
| Trigger mode | Auto, key, external, bus (USB and LAN) | |

Internal Modulation Generator (LF)

| Internal Modulation Generator (LF) | | |
|------------------------------------|---|-----------------------|
| Waveform | Sine, square | |
| Frequency range | Sine | DC to 200 kHz |
| | Square | DC to 20 kHz |
| Resolution | 0.01 Hz | |
| Frequency error | Same as that of the RF reference source | |
| Voltage range | AC | 0 to 3 V _p |
| | DC | -3 V to 3 V |
| Voltage resolution | 2 mV | |

Modulation^[2]

| Simultaneous Modulation | | | | | |
|-------------------------|----|----|----|------------|----------|
| | AM | FM | ØM | Pulse mod. | I/Q mod. |
| AM | — | ○ | ○ | △ | × |
| FM | ○ | — | × | ○ | ○ |
| ØM | ○ | × | — | ○ | ○ |
| Pulse mod. | △ | ○ | ○ | — | ○ |
| I/Q mod. | × | ○ | ○ | ○ | — |

Note: ○ : compatible; × : not compatible; △ : compatible, but the AM performance will be undermined when pulse modulation is enabled.

| Amplitude Modulation | |
|---------------------------------|--------------------|
| Carrier frequency range | ≤ 3.6 GHz |
| Modulation source | Internal, external |
| Modulation depth ^[3] | 0% to 100% |
| Resolution | 0.1% |

Note:

[1] Time from receipt of SCPI command to within 0.1 dB of final level.

[2] Unless otherwise noted, the modulation source is sine. The temperature range is from 20°C to 30°C, with the carrier frequency ≥ 1 MHz.

[3] The envelop peak power is no greater than the maximum value of the specification output range.

| | | |
|-------------------------------|--|---|
| Setting uncertainty | $f_{\text{mod}} = 1 \text{ kHz}$ | $< \text{setting value} \times 4\% + 1\%$ |
| Distortion | $f_{\text{mod}} = 1 \text{ kHz}, m < 30\%, \text{level} = 0 \text{ dBm}$ | $< 3\%$ (typ.) |
| Modulation frequency response | $m < 80\%, \text{DC}/10 \text{ Hz to } 100 \text{ kHz}$ | $< 3 \text{ dB}$ (nom.) |

Frequency Modulation

| | | |
|--|--|---|
| Carrier frequency range | $\leq 3.6 \text{ GHz}$ | |
| Modulation source | Internal, external | |
| Max. deviation | $N \times 1 \text{ MHz}$ (nom.) | |
| Resolution | $< 0.1\%$ of the deviation or 1 Hz , whichever is greater (nom.) | |
| Setting uncertainty | $f_{\text{mod}} = 1 \text{ kHz}$, internal modulation | $< \text{setting value} \times 2\% + 20 \text{ Hz}$ |
| Distortion | $f_{\text{mod}} = 1 \text{ kHz}$, deviation = $N \times 50 \text{ kHz}$ | $< 2\%$ (typ.) |
| Modulation frequency response ^[1] | DC/10 Hz to 100 kHz | $< 3 \text{ dB}$ (nom.) |

Phase Modulation

| | | |
|--|--|---|
| Carrier frequency range | $\leq 3.6 \text{ GHz}$ | |
| Modulation source | Internal, external | |
| Max. deviation | $N \times 5 \text{ rad}$ (nom.) | |
| Resolution | $< 0.1\%$ of the deviation or 0.01 rad , whichever is greater (nom.) | |
| Setting uncertainty | $f_{\text{mod}} = 1 \text{ kHz}$, internal modulation | $< \text{setting value} \times 1\% + 0.1 \text{ rad}$ |
| Distortion | $f_{\text{mod}} = 1 \text{ kHz}$, deviation = $N \times 5 \text{ rad}$ | $< 1\%$ (typ.) |
| Modulation frequency response ^[2] | DC/10 Hz to 100 kHz | $< 3 \text{ dB}$ (nom.) |

Pulse Modulation (Option DSG3000B-PUG)

| | | |
|----------------------------|---|-------------------|
| Carrier frequency range | $\leq 3.6 \text{ GHz}$ | |
| Modulation source | External, internal | |
| On/off ratio | $100 \text{ kHz} \leq f \leq 3.6 \text{ GHz}$ | $> 70 \text{ dB}$ |
| Rise/fall time (10%/90%) | $< 50 \text{ ns}$ | |
| Pulse repetition frequency | DC to 1 MHz | |

Pulse Generator (Option DSG3000B-PUG)

| | | |
|---------------|---|--------------------------|
| Pulse mode | Single pulse | |
| Pulse period | Setting range | 40 ns to 170 s |
| | Resolution | 10 ns |
| Pulse width | Setting range | 10 ns to (170 s - 10 ns) |
| | Resolution | 10 ns |
| Trigger delay | Setting range | 10 ns to 170 s |
| | Resolution | 10 ns |
| Trigger mode | Auto, external trigger, external gate, key, bus (USB and LAN) | |

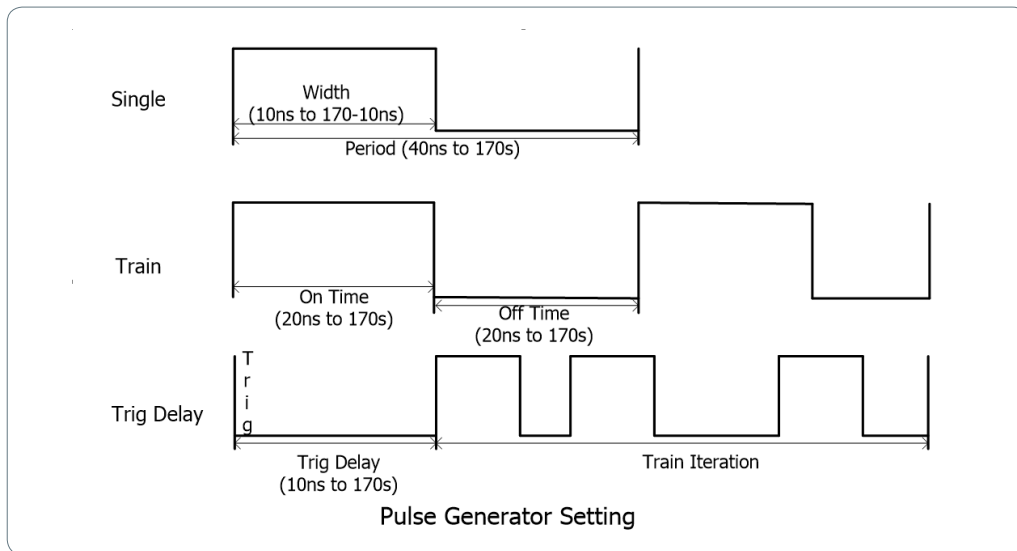
Pulse Train Generator (Option DSG3000B-PUG)

| | | |
|-----------------------|-----------------------------------|----------------|
| Pulse train generator | Number of pulse patterns | 1 to 2047 |
| | On/off time range | 20 ns to 170 s |
| | Number of repetitions per pattern | 1 to 256 |

Note:

[1] External modulation, measured at 100 kHz deviation.

[2] External modulation, measured at 5 rad deviation.



I/Q Modulation (Only Available for DSG3065B-IQ and DSG3136B-IQ)

| | | |
|---|---|---------------------------------|
| Carrier frequency range | 50 MHz ≤ f ≤ 6.5 GHz | |
| Modulation source | External, internal | |
| Bandwidth (RF) | External modulation | |
| | Baseband (I or Q) | ≤ 60 MHz (nom.) |
| | RF (I + Q) | ≤ 120 MHz (nom.) |
| | Internal modulation | |
| | Baseband (I or Q) | ≤ 30 MHz (nom.) |
| | RF (I + Q) | ≤ 60 MHz (nom.) |
| Carrier suppression ^[1] | 50 MHz ≤ f ≤ 6 GHz | ≥ 40 dBc (typ.) |
| Image sideband suppression ^[1,2] | 50 MHz ≤ f ≤ 6 GHz | ≥ 40 dBc (typ.) |
| External I/Q input | VSWR | < 1.5 |
| | Full range input | $\sqrt{I^2 + Q^2} = 0.5V_{rms}$ |
| Internal modulation | | |
| EVM ^[1] | 16 QAM, root cosine filter (α = 0.22), 4 MSps, output level ≤ +4 dBm | ≤ 2%rms (typ.) |
| | QPSK, root cosine filter (α = 0.22), 4 MSps, output level ≤ +4 dBm | ≤ 2%rms (typ.) |
| External modulation | | |
| EVM ^[1] | CDMA2000/1xEV-DO, 1.2288 Mcps, frequency: 800 to 900 MHz, 1800 to 1900 MHz, output level ≤ +4 dBm | ≤ 2%rms (typ.) |
| ACPR | | ≥ 70 dB |

I/Q Baseband Generator (Only Available for DSG3065B-IQ and DSG3136B-IQ)

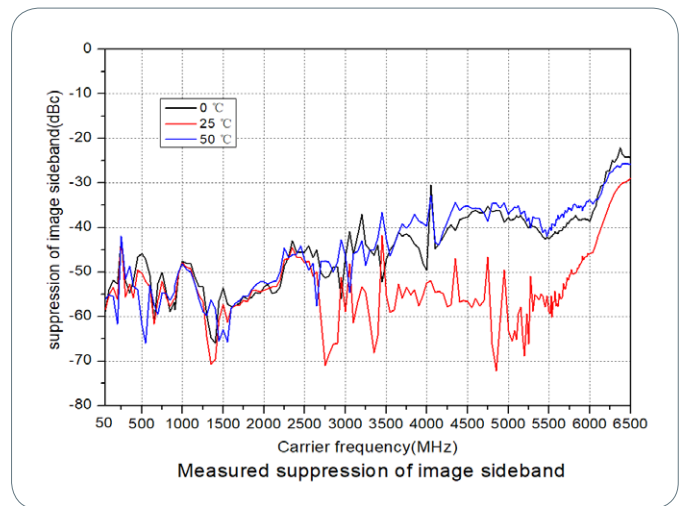
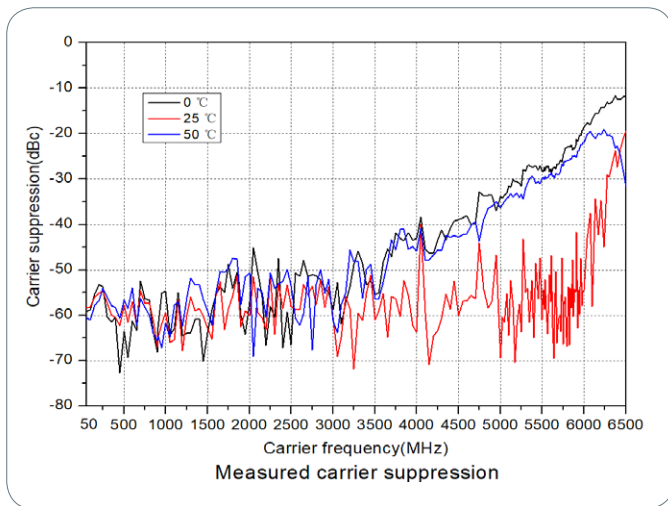
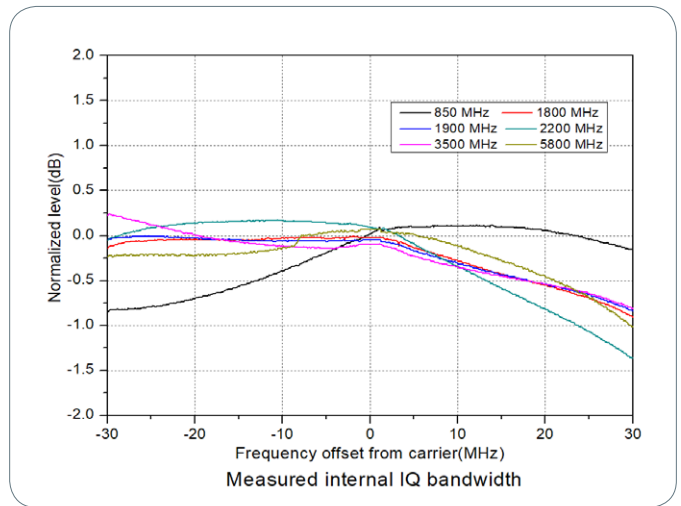
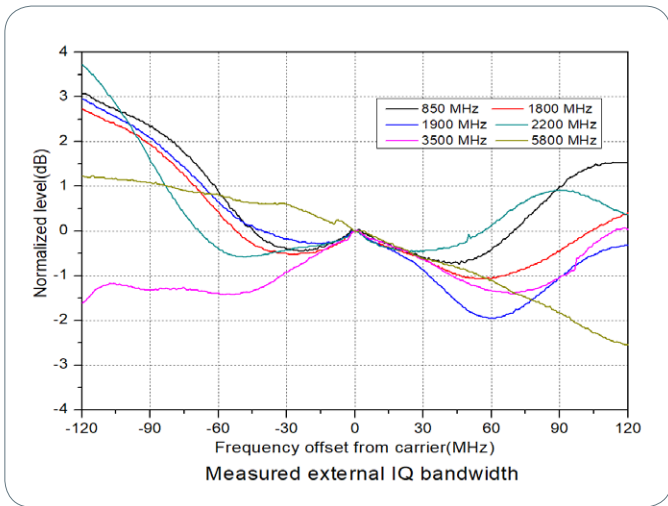
| | | |
|--------------------|------------------|---|
| Output impedance | 50 Ω (nom.) | |
| Output voltage | Setting range | 0.02 V _p to 1.5 V _p |
| | Resolution | 1 mV |
| Frequency response | Reference: 1 MHz | ≤ 10 MHz |
| | | ≤ 30 MHz |
| | | < 0.5 dB (nom.) |
| | | < 1 dB (nom.) |

Note:

[1] The parameter is measured at room temperature. When the temperature is different from the room temperature, the specification will deteriorate.

[2] Baseband frequency ≤ 10 MHz.

| | | | |
|------------------------------|--------------------------|----------------|--|
| I/Q imbalance | Amplitude | ≤ 10 MHz | < 0.1 dB (nom.) |
| | | ≤ 30 MHz | < 0.2 dB (nom.) |
| | Nonlinear phase | ≤ 10 MHz | 200 ps (nom.) |
| | | ≤ 30 MHz | 500 ps (nom.) |
| SFDR | Sine | ≤ 30 MHz | > 50 dB (nom.) |
| Waveform memory | Waveform length | | 1 sample to 16 Msample in one-sample steps |
| | Resolution | | 14 bits |
| | Loading time (1 Msample) | | < 10 s ^[1] (nom.) |
| | Non-volatile memory | | 96 MB (nom.) |
| Sample rate | Setting range | | 1 kHz to 50 MHz |
| | Resolution | | 0.01 Hz |
| Trigger | Trigger mode | | Auto, key, external, bus (USB and LAN) |
| | Operation mode | | Retrig, arm auto, arm retrigger, single |
| | External trigger delay | | |
| | Setting range | | 0 to (2 ¹⁶ - 1) |
| | Resolution | | 1 |
| | External trigger inhibit | | |
| | Setting range | | 0 to (2 ¹⁶ - 1) |
| | Resolution | | 1 |
| External trigger pulse width | | > 20 ns (nom.) | |



Note:
[1] Load from internal non-volatile Flash memory.

Input and Output

| Front Panel Connectors | | |
|---|-------------|--|
| RF output | Impedance | 50 Ω (nom.) |
| | Connector | N female |
| External modulating signal input | Impedance | 100 k Ω /600 Ω /50 Ω (nom.) |
| | Coupling | AC/DC |
| | Sensitivity | 1 V _{pp} for indicated modulation depth or deviation (nom.) |
| | Connector | BNC female |
| Internal modulation generator (LF) output | Impedance | 50 Ω (nom.) |
| | Connector | BNC female |

| Rear Panel Connectors | | |
|---|----------------------|---------------------|
| External trigger input | Impedance | 1 k Ω (nom.) |
| | Connector | BNC female |
| | Trigger voltage | 3.3 V TTL level |
| Signal valid output | Connector | BNC female |
| | Output voltage | 0 V/3.3 V (nom.) |
| Pulse input or output | Impedance | 50 Ω (nom.) |
| | Input/output voltage | 0 V/3.3 V (nom.) |
| 10MHz input (external frequency reference input) | Impedance | 50 Ω (nom.) |
| | Connector | BNC female |
| 10MHz output (external frequency reference output) | Impedance | 50 Ω (nom.) |
| | Connector | BNC female |
| I/Q baseband input/output signal (only available for DSG3065B-IQ/DSG3136B-IQ) | Impedance | 50 Ω (nom.) |
| | Connector | BNC female |

| Rear Panel Communication Interfaces | | |
|-------------------------------------|----------------------|-------------------|
| USB host | Connector | A plug |
| | Protocol | Version 2.0 |
| USB device | Connector | B plug |
| | Protocol | Version 2.0 |
| LAN | LXI Core 2011 Device | 10/100Base, RJ-45 |

General Specifications

| Display | |
|------------|-----------|
| Type | TFT LCD |
| Resolution | 480 × 272 |
| Size | 4.3-inch |

| Mass Storage | |
|--------------------|---|
| Mass storage | Non-volatile Flash memory (internal); USB storage device (not supplied) |
| Data storage space | Non-volatile Flash memory (internal) 96 MB (nom.) |

| Power Supply | |
|-------------------------|---|
| Input voltage range, AC | 100 V to 120 V; 100 V to 240 V |
| AC frequency range | 100 V to 120 V: 45 Hz to 440 Hz 100 V to 240 V: 45 Hz to 65 Hz |
| Power consumption | With all the options 70 W (typ.), max. 100 W |

| Electromagnetic Compatibility and Safety | | |
|--|--|--|
| Certificate of conformity | CE | |
| | cTUVus | |
| | EAC | |
| EMC | Conform to EMC Directive 2014/30/EU, Conform to or above 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 cable |
| | 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, 0.15-80 MHz |
| | IEC 61000-4-8:2009 | 3 A/m (50 Hz, 60 Hz) |
| | 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 |
| Safety regulation | Conform to: 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 | |

| 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 |
| | 40°C to 50°C | ≤ 45% rel. humidity |
| Altitude | Operating height | Below 3,000m |

| Dimensions | |
|-------------|---|
| (W × H × D) | 364 mm × 112 mm × 420 mm (14.33 inch × 4.41 inch × 16.54 inch) |

| Weight | |
|-------------------------|-------------------|
| DSG3065B/DSG3136B | 7.61 kg (16.8 lb) |
| DSG3065B-IQ/DSG3136B-IQ | 8.03 kg (17.7 lb) |

| Calibration Interval | |
|----------------------------------|-----------|
| Recommended calibration interval | 18 months |

Order Information

| | Description | Order Number |
|----------------------|---|---------------------|
| Model | Signal Generator, 9 kHz to 6.5 GHz | DSG3065B |
| | Signal Generator, 9 kHz to 6.5 GHz, I/Q Modulation (Std.) | DSG3065B-IQ |
| | Signal Generator, 9 kHz to 13.6 GHz | DSG3136B |
| | Signal Generator, 9 kHz to 13.6 GHz, I/Q Modulation (Std.) | DSG3136B-IQ |
| Standard Accessories | Power Cable | - |
| Options | Pulse Modulation, Pulse Generator, and Pulse Train Generator | DSG3000B-PUG |
| | High Stable OCXO Reference Clock | OCXO-B08 |
| | Rack Mount Kit | RM-DSG3000 |
| Optional Accessories | 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: 6dB attenuator (1pcs), 10dB attenuator (2pcs) | RF Attenuator Kit |
| | N(M)-N(M) RF cable | CB-NM-NM-75-L-12G |
| | N(M)-SMA(M) RF cable | CB-NM-SMAM-75-L-12G |
| | USB-GPIB interface converter | USB-GPIB |

Warranty Period

Three years for the mainframe

4TECT

ООО «4TECT»

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