

PRACTICAL, AFFORDABLE AND NEVER CARELESS!

GSP-9300B is a 3GHz spectrum analyzer to meet basic RF measurement requirements. It provides the frequency stability of 0.025ppm; the aging rate of 1ppm/year; a built-in preamplifier; the base noise of -149dBm/Hz, and more than 20 measurement applications, including AM/FM modulation signal analysis, signal channel analysis, and CATV parameter test. While collocating with TG option, GSP-9300B can conduct frequency response or power linearity tests for components.

For monitoring signals, GSP-9300B provides Topographic display mode, which is capable of distinguishing continuous or random signals by using color temperature. Spectrogram mode provides a time axis on spectrum display that allows users to observe signal variations based upon the reference of time. Split window mode allows different parameter settings for each display window. Additionally, GSP-9300B also provides user-friendly user interfaces such as display mode, help, multi-languages, and fast data logging, etc. Interfaces and software include USB/RS-232/LXI/MicroSD/GPIB (option)/DVI output and dedicated PC software IVI Driver.

GSP-9300B, with its unique features, including auto wake-Up, sequence function, and limit line testing, is specially designed to meet the requirements of production lines. The patent design of heat conduction allows GSP-9300B to substantially reduce the warm-up time so as to expedite production processes. Options include tracking generator, carrying bag, battery module, EMI antenna set and rack accessories. The compact design of GSP-9300B satisfies either field testing or the integration of automatic testing systems.

To sum up, GSP-9300B is a stable, light and all-purpose test equipment, which is the most ideal choice for the educational market, production line, and general signal monitoring applications, etc. Most important, the pricing of GSP-9300B is beyond your imagination and it is the number one choice for users with budget considerations.

Frequency Stability : 0.025ppm	Wireless communications applications are nowadays ubiquitous. Signals in the limited spectrum are getting very crowded. Therefore, the demands of signal efficiency and frequency stability are higher and stricter. To meet high precision measurement requirements, GSP-9300B provides the frequency stability of 0.025ppm and the aging rate of 1ppm/year, which only appear in high-end T&M equipment.
Built-in Preamplifier	Engineers often face the challenge of measuring small RF signals during product development stage. GSP-9300B's built-in preamplifier provides the base noise of -149dBm. When collocating with the built-in EMI filter and the dedicated EMI near field probe, GSP-9300B can conduct EMI tests and debugging.
More Than 20 Measurement Applications	GSP-9300B provides rich signal processing functions, including AM/FM modulation signal analysis, signal channel analysis, and CATV parameter test, characteristic test on signal stability, and frequency response or power linearity tests for components to substantially bring up the measurement convenience. Most competitors in the same class only offer a few test functions, and the standard built-in functions of GSP-9300B are options for competitors.



Saelig Company, Inc. 71 Perinton Parkway, Fairport, NY 14450 USA 1-585-385-1750 Simply Reliable info@saelig.com www.saelig.com

FEATURES

- Frequency Range : 9kHz ~ 3 GHz
- 0.025ppm Frequency Stability and 1ppm Aging Rate
- Built-in Preamplifier, 50dB Attenuator, and Sequence Function
- RBW:1Hz~1MHz
- Sensitivity : -149dBm/Hz (@PreAmp on)
- Built-in AM/FM Demodulation & Analysis
- Built-in P1dB point, Harmonic, Channel Power, N-dB Bandwidth, OCBW, ACPR, SEM, TOI, CNR, CTB, CSO, Noise Marker, Frequency Counter, Time Domain Power, Gated Sweep
- Built-in Spectrogram, Topographic and Dual-View Display Modes
- Remote Control Interface : LAN, USB, RS-232
- Options : Tracking Generator, GPIB Interface

APPLICATIONS

- For the Quick Check and Analysis of Spectral Characteristic
- Analyze AM, FM Signal Characteristics
- Monitor Satellite Uplink Signals From Satellite Uplink Truck
- Test Systems That Require a Very Compact Instrument
- Measure The Frequency Response of Cable, Attenuator, Filter and Amplifier

SPECURATIONS SPECURATIONS SPECURATIONS PROVINCE Notice I Supervise Specuration
Range Description 9 Mate - C CMU Internal status Internal status ACCORDING FOR EXERCISE Engends are supply elonge status Internal status Internal status ACCORDING FOR EXECUTION Internal status Internal status Internal status ACCORDING FOR EXECUTION EXE
Readures i to i t
PREQUEXY REFERENCE Impact data bits displayment a single rade i - schelling over a - scheling - schelling over a - schelling - schelling over a
Instrument Instrument of the first state in the subject ment Instrument of the subject ment State S
Adding Bases
Fréglieurs 2007 0 - 50°C Strigt 2007 200 ppm Strigt 2000
FREQUENCY EADOUT ACCURACY India for exercing includions a frequency reference accuracy in bits. No. 11, 10, 10, 10, 10, 10, 11, 11, 10, 10,
Start, Seq. Center, Marker = (Parator Response) indication is Requiring reference accuracy in the OP parator. History resolution MARKER (FRQUENCY COUNTER Resolution Accuracy RRV/Span.>=0.02; Mir level to DNL>D d B MARKER (FRQUENCY COUNTER Resolution Accuracy 0 for (ports parator). USA hor a Citer indication X Requery reference accuracy in the parator Resolution Accuracy RRV/Span.>=0.02; Mir level to DNL>D d B PROJEKT SPIN 0 for (ports parator). USA hor a Citer indication X Requery reference accuracy in the parator Resolution PASAS NOISE RRV/Span.>=0.02; Mir level to DNL>D d B PROJEKT SPIN - 4.44 dir/stp. - Citer SPIN. RRV PROJEKT SPIN - 4.44 dir/stp. - 7.95 dir/stp. PROJEKT SPIN - 4.44 dir/stp. - 7.95 dir/str. PROJEKT SPIN - 4.45 dir/str. - 7.95 dir/str. PROJEKT SPIN
in the Nature Ander Nature Party Course Nature Ander Nature Party Course Nature Requires Course Nature Requires Course Nature Section (Net Sec
MARKER FRAQUENCY COUNTR Image: Construct State of the St
Readured 1 Hor, 10 Hor, 10 Hor, 1 Hor Pressure of the second second sec
Accuracy infraved registronic distance Ar Requery informate accuracy Regulars = 50 2; Mar level to DNL-30 dB FEQUENCY SNA
FRQUENCY SIAN Image 0 Hz (arros span), 100 Hz - 3 CHz FRUE Reading 1 Hz 1 Hz 1 Hz 1 Hz PHASE NOSE * Replay resolution FRUE / Auto FRUE / Auto Offset for cariner - 88 dBc/Hz Typical Typical TO LET - 31 Balt/Hz Typical Typical RESOLUTION RANDWOTT (BWR / TLTR - 31 Balt/Hz - 31 Balt/Hz - 31 Balt/Hz Filer Sandwith 1 Hz - 1 MHz in 1-310 sequence - 31 Balt/Hz - 31 Balt/Hz Shop Fear - 4.5.1 - 3.5 Balt/Hz - 31 Balt/Hz VICOD BANCET - 4.5.1 - 4.5.1 - 4.5.1 WICOD BANCET - 5.0 Balt/Hz - 3.0 Bandwidth - 3.0 Bandwidth AMPLITUDE - 1.0 Hz - 1.0 Hz - 3.0 Bandwidth - 3.0 Bandwidth AMPLITUDE - 1.0 Hz - 1.0 Hz - 3.0 Bandwidth - 3.0 Bandwidth Massemment Range 0 - 5.0 dB, n 1.0 Britge - 5.0 dB, n 1.0 Britge - 3.0 Bandwidth Marce Line Arrow (Line
Resolution i juig mathematication i i juig mat
Acumary i frequency resolution RBW / Aub PASE NOISE UPDATE NOISE UPDAT
PHASE NOISE PHASE
10 Htg. < 38 dBs/14:
100 Mitz < <58.56/ht
1 MHz (>1 MHz (>1 MHZ (M) (MHZ (MHZ (M) (MHZ (MH
Filter Bandwidth 1 Hz - 1 MHz in 13-10 sequence 20 Hz 9 MHz 20 Hz 10 MHz 2 80% R8W = 1 MHz 1 ± 5%% R8W < 1 MHz 408 Bandwidth ratio: .60483.08 VIDCO BANDWIDTH (VBW) FILTER Filter Bandwidth 1 Hz - 1 MHz in 13-10 sequence 20 Hz 9 MHz 1 ± 5%% R8W < 1 MHz 40 Bandwidth ratio: .60483.08 VIDCO BANDWIDTH (VBW) FILTER Filter Bandwidth 1 Hz - 1 MHz in 13-10 sequence 20 Hz - 1 MHz 10 MHz - 1 MHZ 10
Accuracy Shape Factor 200 Hz, 9 Hzh, 120 Hz, 10 Hz 80%, R8W = 1 MHz; ± 5%, R8W = 10 MHz 4.5 : 1
Shape Factor <i><i><i><i><i><i><i><i><i><i><i><i><i></i></i></i></i></i></i></i></i></i></i></i></i></i>
VIDED ANDWIDTH (VSW) FILTER Image: Constraint of the second
Filer Bandwidth 1 Hz - 1 MHz in 13-10 sequence -3dB bandwidth AMPLITUDE FANCE
AME TUDE E ANGE Diplayed Average Noise Level(DANL)to 15 dBm Measurement Range 100 HHz - 10 MHz 10 MHz - 2 O HHz DANL to 21 dBm DANL to 21 dBm DANL to 21 dBm ATTENUATOR DANL to 21 dBm Input Attenuator Range 0 - 50 dB, in 1 dB steps Auto or manual setup MAXIMUM SAFE INPUT LEVEL Searage Total Power 5 - 33 dBm DC Volzage ± 30 V Input attenuator 2 10 dB DC Volzage ± 30 V Input attenuator 2 10 dB DC Volzage ± 30 V Input attenuator 2 10 dB DISPLAYED AVERACE NOISE LEVE (DANL) > 0 dBm Typical; FC2 50 MHz; preamp. off DISPLAYED AVERACE NOISE LEVE (DANL) 0 dB attenuators, RF Input is terminated with a 500 load. RBW 10 Hz; VBW 10 Hz; span 500 Hz; reference level 60 dBm; trace average240 9 MHz-100 HHz < -30 dBm Nominal 27 - 32 G CH2 - 106 dBm Nominal 10 MHz - 10 HHz < -108 dBm - 3 ((f100 Hz) dB Nominal 10 MHz - 10 MHz < -108 dBm - 3 ((f100 Hz) dB Nominal 10 MHz - 10 MHz < -108 dBm - 3 ((f100 Hz) dB Nominal 10 MHz - 32 G Hz -108 dBm - 3 ((f100 Hz) dB Nominal 10 MHz - 32 G Hz -108 dBm - 3 ((f10 LVz) dB Nominal 10 MHz - 32 G Hz -108 dBm - 3 ((f10 LVz) dB
Measurement Range 100 H/z - 1 M/z 10 M/z - 3 GHz Displayed Average Noise Level(DANL) to 16 dBm DANL to 30 dBm ATTENUATOR Dank Lo 30 dBm DANL to 30 dBm MAXIMUM SAFE INPUT LEVE Autor or manual setup Maximum SAFE INPUT LEVE Input attenuator 210 dB OC Voltage 4.50 V 1 dB CAIN COMPRESSION Input attenuator 210 dB Total Power at the Preamp > 2.2 dBm Displayed Average Nover Evel (dBm) - 0.6 dBm Total Power at the Mixer > 0.0 dBm 2.2 dBm Typical ; FC 250 M/Hz; preamp. off Total Power at the Preamp > 2.2 dBm Displayed Average Nover Evel (dBm) - attenuation (dB) Preamp off Od dB attenuation; RF Input is terminated with a 500 load. RBW 10 Hz; yean 500 Hz; reference level = - 60 dBm; trace average2:40 V1Hz-10 MHz < -30 dBm Nominal V1Hz-10 MHz < -102 dBm - 3 (f/100 kHz) dB Nominal V1Hz-10 MHz < -102 dBm - 3 (f/100 kHz) dB Nominal V1Hz-10 MHz < -102 dBm - 3 (f/100 kHz) dB Nominal V1MHz - 10 MHz < -102 dBm + 3 (f/10 kHz) dB Nominal V1Hz-2 dBm
1 MHz > 10 MHz DANL to 21 dBm ATTENUATOR DANL to 21 dBm Imput Attenuator Range 0 - 50 dB, in 1 dB steps Auto or manual setup MAXIMUM SAFE INPUT LEVEL. Auto or manual setup MAXIMUM SAFE INPUT LEVEL.
ATTENUATOR 0 - 50 db, in 1 db steps Auto or manual setup MAXIMUM SAFE INPUT LEVEL - 50 db, in 1 db steps Auto or manual setup MAXIMUM SAFE INPUT LEVEL - 50 dBm Input attenuator ≥ 10 dB Area and the setup - 50 dBm Typical : fc.2 50 MHz; preamp. off Table Aver at the Peamp > 0 dBm - 52 dBm DiSPLAYED AVERAGE NOISE LEVEL (DANL) Description Maxer setup Paramp off 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; span 500 Hz; reference level = - 60 dBm; 9H4-100 HHz - 0.3 dBm Nominal 9H4-100 HHz - 0.108 dBm Nominal 10 HHz - 0.108 dBm Nominal 11 MHz-10 HHz - 0.108 dBm Nominal 12 - 3.25 CHz - 0.108 attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; span 500 Hz; reference level = - 60 dBm; 10 HHz-10 HHz - 0.108 dBm; - 2.x (f)(100 kHz) dB Nominal 10 Hz+2 - 108 Hz - 0.108 dBm; - 2.x (f)(10 LHz) dB Nominal 10 Hz+2 - 108 Hz - 0.108 dBm; - 2.x (f)(10 LHz) dB Nominal 10 Hz+2 - 108 Hz - 0.108 dBm; - 2.x (f)(10 LHz) dB Nominal
Input Attenuator Range 0 - 50 dB, in 1 dB steps Auto or manual setup MAXIMUM SAFE NPUT LEVEL Advances input attenuator 210 dB MAXIMUM SAFE NPUT LEVEL Advances input attenuator 210 dB BG GAN COMPRESSION - 0 dBm Total Power at Its Miner > .22 dBm > 0 dBm DISPLAYED AVERAGE NOISE LEVEL [DANL] Typical ; Fc2 30 MHz; preamp, off trace average2 40 DISPLAYED AVERAGE NOISE LEVEL [DANL] OB attenuation; RF Input is terminated with a 50Ω load, RBW 10 Hz; span 500 Hz; reference level = - 60 dBm; trace average2 40 9 kHz-100 kHz < -33 dBm Norminal Norminal 1 MHz < -30 dBm - 3 x (f/100 kHz) dB Norminal Norminal 1 MHz < -108 dBm - 3 x (f/100 kHz) dB Norminal Norminal 1 MHz-10 MHz < -108 dBm - 3 x (f/100 kHz) dB Norminal Norminal 1 MHz-10 MHz < -108 dBm - 3 x (f/100 kHz) dB Norminal Norminal 1 MHz-10 MHz < -108 dBm - 3 x (f/100 kHz) dB Norminal Norminal 1 MHz-10 MHz < -108 dBm - 3 x (f/100 kHz) dB Norminal Norminal 1 MHz-10 MHz < -108 dBm - 3 x (f/100 kHz) dB Norminal Norminal 1 MHz-10 MHz < -104 dBm / 4 C (104 dB Norminal <t< th=""></t<>
MAXMUM SAFE INPUT LEVEL Solution Average Total Power ≤ -33 dBm Input attenuator 2 10 dB DC Voltage ± 50 V Input attenuator 2 10 dB DC Voltage ± 50 V Input attenuator 2 10 dB DC Voltage ± 50 V Input attenuator 2 10 dB De Kanto COMPRESSION Typical ; Fc 2 50 MHz; preamp. off Typical ; Fc 2 50 MHz; preamp. off Total Power at the Preamp > 22 dBm Typical ; Fc 2 50 MHz; preamp. off DISPLAYED AVERAGE NOISE LEVEL (DANL) Maxe power level (dBm) = nput power (dBm, - attenuation (dB) Peramp off O dB attenuation; RF Input is terminated with a 50Ω load. RBV 10 Hz; vBW 10 Hz; span 500 Hz; reference level = - 60 dBm; trace average 240 100 HHz - 10 HHz < -122 dBm Norminal 100 HHz - 10 HHz < -102 dBm + 3x (f/10 GHz) dB Norminal 100 HHz - 10 HHz < -102 dBm + 3x (f/10 GHz) dB Norminal 100 HHz - 10 HHz < -102 dBm + 3x (f/10 GHz) dB Norminal 100 HHz - 10 Hz < -102 dBm + 3x (f/10 GHz) dB Norminal 100 Hz - 10 Hz < -102 dBm + 3x (f/10 GHz) dB Norminal 10 Hz - 10 Hz < -102 dBm + 3x (f/10 GHz) dB Normi
Average Total Power ≤ +33 dBm Input attenuator ≥ 10 dB DC Voltage ± 50 V Input attenuator ≥ 10 dB 1 dB CAN COMPRESSION Trace Trace 17, FC 23 0 MHz; preamp, off Total Power at the Preamp > 22 dBm Trace 17, FC 23 0 MHz; preamp, off DISPLAYED AYERAGE NOISE LEVEL OAHN > -22 dBm Mixer power level (dBm) = input power (dBm) = attenuation (dB) DISPLAYED AYERAGE NOISE LEVEL OAHN > -22 dBm Nominal Yorke average 240 0 dB attenuation; RF Input is terminated with a 50Ω load, RBW 10 Hz; yBW 10 Hz; span 500 Hz; reference level = - 60 dBm; Yata - 10 MHz < -30 dBm Nominal Yata - 10 dB attenuation; RF Input is terminated with a 50Ω load, RBW 10 Hz; YBW 10 Hz; span 500 Hz; reference level = - 60 dBm; Yata - 10 dB attenuation; RF Input is terminated with a 50Ω load, RBW 10 Hz; YBW 10 Hz; span 500 Hz; reference level = - 60 dBm; Yata - 10 MHz < -162 dBm - 3 x (f) 100 Hz) dB Nominal Yata - 10 Mz < -162 dBm - 3 x (f) 100 Hz) dB Nominal Yata - 142 dBm - 3 (f) CDHz) dB Nominal Nominal Yata - 142 dBm - 3 (f) CDHz) dB Nominal Nominal Yata - 142 dBm + 3 x (f) CH2 dB Nominal
1 dB GAN COMPRESSION Total Power at Its Mixer > 2.2 dBm Ypical ; Fc.2 50 MHz; preamp, off Typical ; Fc.2 50 MHz; preamp, off Ypical ; Fc.2 50 MHz; preamp, off Mker power (dBm) – attenuation (dB) DISFLAYED AVERACE NOISE LEVEL (DANL) 0.48 attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; VBW 10 Hz; span 500 Hz; reference level = - 60 dBm; trace average 2.40 9 kHz-100 kHz 0.0 kHz-1 MHz - 93 dBm Nominal Nominal Nominal 9 kHz-100 kHz - 100 kHz-1 MHz - 93 dBm Nominal Nominal 0 kHz-1 MHz - 108 dBm - 3 x (f/100 kHz) dB - 142 dBm + 3 x (f/1 CHz) dB Nominal Nominal 1 0 MHz-1 MHz - 108 dBm - 3 x (f/100 kHz) dB - 142 dBm + 3 x (f/1 CHz) dB Nominal Nominal 1 0 MHz-1 MHz - 142 dBm + 3 x (f/1 CHz) dB Nominal Nominal 1 0 MHz-1 MHz - 142 dBm + 3 x (f/1 CHz) dB Nominal 1 0 MHz-1 MHz - 142 dBm + 3 x (f/1 CHz) dB 1 0 ML
Total Power at the Nixer > 0 dBm Typical: F2 ± 50 MHz; preamp, off DISPLAYED AVERAGE NOISE LEVEL DANL Mixer power level (dBm) = input power (dBm) - attenuation (dB) DISPLAYED AVERAGE NOISE LEVEL DANL Mixer power level (dBm) = input power (dBm) - attenuation (dB) Preamp off 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; VBW 10 Hz; span 500 Hz; reference level - 60 dBm; trace average2 40 9 Hzh-100 Hz < 93 dBm < 90 dBm - 3 x (f)(100 Hz) dB Nominal 100 Hzh-1 MHz < 90 dBm - 3 x (f)(100 Hz) dB Nominal Nominal 2.7 - 325 CHz < < 116 dBm Nominal Nominal Preamp off 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; VBW 10 Hz; span 500 Hz; reference level = -60 dBm; trace average2 40 100 Hzh-1 MHz < < 104 dBm - 3 x (f)(10 Hz) dB Nominal 101 Hz-10 Mz < < 104 dBm - 3 x (f)(10 Hz) dB Nominal 102 Hzh Totak < < 142 dBm + 3 x (f) CHz) dB Nominal 103 Hzh = 20 CM < < 142 dBm + 3 x (f) CHz) dB Nominal 104 Hz-10 Mz; < < 142 dBm + 3 x (f) CHz) dB Nominal 105 Hzh = 20 CM < 002, LBm + 3 x (f) CHz) dB Nominal
Total Power at the Preamp > -22 dBm Transport Transport <thtransport< th=""> Transport <thtransport<< th=""></thtransport<<></thtransport<>
DISPLAYED AVERAGE NOISE LEVEL (DANL) Odd attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; yBW 10 Hz; span 500 Hz; reference level = - 60 dBm; trace average2 40 9 kHz-100 kHz <-93 dBm Nominal 0 kHz-100 kHz <-93 dBm Nominal 2 - 325 CHz <-116 dBm Nominal Preamp on 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; yBW 10 Hz; span 500 Hz; reference level - 60 dBm; trace average2 40 100 kHz-10 MHz <-102 dBm - 3 x (f/100 kHz) dB Nominal Preamp on 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; yBW 10 Hz; span 500 Hz; reference level - 60 dBm; trace average2 40 100 kHz-10 MHz <-142 dBm - 3 x (f/100 kHz) dB Nominal 100 kHz-10 MHz <-142 dBm - 3 x (f/10 kHz) dB Nominal 100 kHz-10 MHz <-142 dBm - 3 x (f/10 kHz) dB Nominal 100 kHz-10 MHz <-142 dBm - 3 x (f/10 kHz) dB Nominal 100 kHz-10 MHz <-142 dBm - 3 x (f/10 kHz) dB Nominal 100 kHz-10 MHz <-142 dBm - 3 x (f/10 kHz) dB Nominal 101 kHz-10 MHz <-142 dBm - 3 x (f/10 kHz) dB Nominal 101 kHz-10 MHz <-142 dBm - 3 x (f/10 kHz) dB Nominal
Preamp off 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; YBW 10 Hz; span 500 Hz; reference level = - 60 dBm; Trace average240 9 kHz-100 kHz <.93 dBm Nominal 100 kHz-1 MHz <.90 dBm - 3 k (f/100 kHz) dB Nominal 101 HHz-1 MHz <.90 dBm - 3 k (f/100 kHz) dB Nominal 2.7 - 3.25 CHz <.116 dBm Nominal 2.7 - 3.25 CHz <.116 dBm Nominal Preamp on 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; span 500 Hz; reference level = - 60 dBm; Trace average240 100 kHz-10 MHz <.108 dBm - 3 x (f/100 kHz) dB Nominal 101 HHz-10 MHz <.104 dBm - 3 x (f/100 kHz) dB Nominal 102 kHz-10 MHz <.142 dBm + 3 x (f/1 CHz) dB Nominal 103 HHz-20 KHZ <.142 dBm + 3 x (f/1 CHz) dB Nominal 104 Hz-325 CHz <.142 dBm + 3 x (f/1 CHz) dB Nominal 105 Hz - 26 CHz <.142 dBm + 2 x (f/1 CHz) dB Nominal 106 Hz - 26 CHz <.142 dBm + 3 x (f/1 CHz) dB Nominal 106 Hz - 26 CHz <.142 dBm + 3 x (f/1 CHz) dB Nominal 106 Hz - 26 CHz
Instant of the severage 240 Instant of the severage 240 100 kHz-1 MHz < 30 dBm > x (f/100 kHz) dB Nominal 100 kHz-1 MHz < -30 dBm > x (f/100 kHz) dB Nominal 27 - 325 CHz < -116 dBm Nominal Nominal Preamp on 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW ID Hz; span 500 Hz; reference level = -60 dBm; trace average 240 100 kHz-1 MHz < -182 dBm Nominal 100 kHz-2 MHz < -182 dBm Nominal 100 kHz-3 25 CHz < -142 dBm Nominal 100 kHz-3 MRL < -142 dBm Nominal 100 kHz-3 MRL < -142 dBm, dBmV, V, W Nominal 100 kHz-1 MHz < -142 dBm, dBmV, V, W Nominal 100 kHz-2 GFL Log scale Nominal 100 kHz-1 MRL < -142 dBm, dBmV, V, W Log scale Nominal 101 MHz-2 GFL Log scale Nominal 103 kHz < -142 dBm, dBmV, V, W Log scale Single/Split Windows Number of Traces Master Level Baskout Nof of reference level Single/Split Windows
100 HHz <-90 dBm -3 x (f/100 kHz) dB Nominal 11Hz-10 HHz <-22 dBm Nominal 2.7 - 3.25 GHz Nominal Preamp on 0 dB attenuation; RF Input is terminated with a 50Ω load, RBW 10 Hz; VBW 10 Hz; span 500 Hz; reference level = - 60 dBm; trace average2 d-0 100 HHz-1 MHz <-108 dBm - 3 x (f/100 kHz) dB Nominal 101 HHz-10 HHz <-108 dBm - 3 x (f/100 kHz) dB Nominal 101 HHz-2 AZ GHz <-108 dBm - 3 x (f/100 kHz) dB Nominal 101 HHz-2 AZ GHz <-108 dBm - 3 x (f/100 kHz) dB Nominal 101 HHz-2 AZ GHz <-108 dBm - 3 x (f/100 kHz) dB Nominal 101 HHz-10 HHz <-108 dBm - 3 x (f/100 kHz) dB Nominal 101 HHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 101 HHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 101 HHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 101 HHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 101 HHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 101 HZ <-142 dBm + 3 x (f/1 GHz) dB Log scale 101 Hz <-142 dBm + 3 x (f/1 GHz) x Mz Log scale 101 Hz <-05 (Hz) x (Fz) (Fz)
1 MHz-10 MHz <-122 dBm Nominal 27-325 GHz <116 dBm Nominal Preamp on 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; Span 500 Hz; reference level = -60 dBm; trace average2 40 10 MHz-10 MHz <-104 dBm 3 (f)100 HHz) dB Nominal 10 MHz-10 MHz <-104 dBm -3 x (f)10 (Hz) dB Nominal 10 MHz-30 GHz <-142 dBm Nominal 10 MHz <010 Bg Ofference level Log scale 10 MB <01 Bg Sofference level Linear scale 10 MHz Sofference level Linear scale 10 MHz Sofference level Hz Soff Sofference level 10 MHz Sofference level Ref level 0 dBm; 10 dB RF attenuation 10 MHz <t< th=""></t<>
2.7 - 3.25 GHz < -116 dBm Nominal Preamp on 0 dB attenuation; RF Input is terminated with a 50Ω load. RBW 10 Hz; VBW 10 Hz; span 500 Hz; reference level = -60 dBm; trace average2 40 100 Hz+-1 MHz <-108 dBm - 3x (f/100 Hz) dB Nominal 101 MHz-20 MHz <-108 dBm - 3x (f/10 GHz) dB Nominal 101 MHz-20 MHz <-142 dBm + 3x (f/1 GHz) dB Nominal 101 MHz-20 GHz <-142 dBm + 3x (f/1 GHz) dB Nominal 102 MHz-10 MHz <-142 dBm + 3x (f/1 GHz) dB Nominal 103 Marker Level Readout Log, Linear Marker Level Readout Log scale 103 Warker Level Readout 0.01 % of reference level Log scale Linear scale 104 Warker Level Readout 0.01 % of reference level Log scale Linear scale 105 Marker Level Readout 0.01 % of reference level Log scale Linear scale 106 Warker Level Readout 0.01 % of reference level Log scale Linear scale 107 Warker Level Readout 0.01 % of reference level Log scale Linear scale 108 Warker Level Readout 0.01 % of reference level Log scale Linear scale 108 Warker Level Readout 0.01 % of reference level Log scale Linear scale 108 Warker Level Readout 0.01 % of reference level Kore Single/S
trace average240Norminal100 kHz-1 MHz<108 dBm - 3 x ((f100 kHz) dB100 HHz-2 MHz<104 dBm - 3 x ((f10 kHz) dB10 MHz-3.25 GHz<142 dBm + 3 x ((f1 GHz) dB10 MHz-3.25 GHz<142 dBm + 3 x ((f1 GHz) dB10 MHz-3.25 GHz<142 dBm + 3 x ((f1 GHz) dB10 Maker Level Readout0.01 dBUnitsdBm, dBm, dBuV, V, WMarker Level Readout0.01 dB0.01 % of reference levelLinear scaleLevel Display ModesTrace, Topographic, SpectrogramNumber of Traces4Oussi-Peak(EMI).Average(EMI).Clear & Write, Max/Min Hold,View, Blank, AverageSingle/Split WindowsABSOLUTE AMPLITUDE ACCURACYCenter-160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; log scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference LevelAbsolute PointCenter-60 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; log scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference LevelPreamp OffAttenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C± 0.4 dBAttenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C2 GHz ~ 3 GHz0.6 dB2 GHz ~ 3 GHz0.6 dB in 1 dB step2 GHz ~ 3 GHz0.2 dB2 GHz ~ 3 GHz0.2 dB2 GHz ~ 3 GHz0.2 dB100 kHz; 0 Z GHz0.2 dB101 CH KERSWITCHING UNCERTAINTYTENUATION SWITCHING UNCERTAINTYTENUATION SWITCHING UNCERTAINTY1 Hz - 1 HHz± 0.25 dB1 Hz - 1 Hz± 0.25 dB1 Hz - 1 GHz± 0.5 dB1 Hz - 1 Hz1 Hz - 1 Hz<
100 kHz-1 MHz <-108 dBm - 3 x (f/100 kHz) dB Nominal 11 MHz-10 MHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 100 kHz-2 MHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 100 MHz-32S GHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 100 MHz-32S GHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 100 MHz-32S GHz Log, Linear Cag scale Log scale 100 MHz-32S GHz 001 dB Log scale Log scale Linear scale 100 Words Trace, Topographic, Spectrogram Single/Split Windows Single/Split Windows Number of Traces Positive-peak, negative-peak, sample, normal, RMS (not Video), Single/Split Windows Single/Split Windows ABSOLUTE AMPLITUDE ACCURACY Absolute Point Center-160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; log scale; 1 dB/div; peak detector; 23*C±1*C; Signal at Reference Level Preamp Off ± 0.3 dB Ref level 0 dBm; 10 dB RF attenuation Preamp Off ± 0.3 dB Ref level 0 dBm; -3.0 dB RF attenuation Preamp Off ± 0.4 dB Attenuation: 10 dB; Reference: 160 MHz; 20 – 30*C ± 0.6 dB 2 GHz - 3 GHz ± 0.6 dB Attenuation: 0 dB; Reference: 160 MHz; 20 – 30*C ± 0.6 dB <
1 MHz-10 MHz < -142 dBm + 3 x (f/1 GHz) dB Nominal Nominal 10 MHz-3.25 GHz <-142 dBm + 3 x (f/1 GHz) dB Nominal 10 MHz-3.25 GHz <-142 dBm + 3 x (f/1 GHz) dB Nominal Nomin
10 MHz-3.25 GHz< -142 dBm + 3 x (f/1 GHz) dB
Scales Units Marker Level Readout Log, Linear dBm, dBmV, dBuV, V, W 0.01 dB 0.01 % of reference level 0.01 % of reference level 0.02 % of reference level 0.02 % of reference level 0.03 dB 0.03 dB 0.04 M = 2.0 GHz 0.04 M = 2.0 GHz 0.05 dB in 1 dB step 0.05 dB in 1 d
Units Marker Level ReadoutdBm, dBm, V, BW, V, W 0.01 dB 0.01 % of reference levelLog scale Linear scaleLevel Display ModesTrace, Topographic, SpectrogramSingle/Split WindowsNumber of Traces Petercor4 Positive-peak, negative-peak, sample, normal, RMS (not Video), View, Blank, Average (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average (EMI), Clear & Write, Stand & Reflevel 0 dBm; 10 dB RF attenuation View, Blank,
Imme of the function0.01 % of reference levelLinear scaleLevel Display ModesTrace, Topographic, SpectrogramSingle/Split WindowsNumber of Traces4DetectorQuasi-Peak, sample, normal, RMS (not Video), Quasi-Peak (EMI), Average (EMI), Clear & Write, Max/Min HoldSingle/Split WindowsABSOLUTE AMPLITUDE ACCURACYEnter-160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; log scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference Level Preamp Off± 0.3 dB ± 0.4 dBRef level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; 30 dB RF attenuationPreamp Off Preamp Off 100 kHz - 2.0 GHz 2 GHz - 3 GHz Preamp On Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dBView 2.0 GMz; 2.0 GMZAttenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB± 0.25 dBAttenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB 2 GHz - 3 GHz 2 GHz - 3 GHZ± 0.25 dBAttenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB 2 GHZ - 3 GHZ 2 GHZ - 3 GHZ± 0.25 dBReference : 160 MHz; 100B attenuationExerce 2 GHZHTZEN WITCHING UNCERTAINTUNCERTAINTUR± 0.25 dBReference : 100 MHz; 100B attenuation Reference : 100 MHz; 2 Graphic, 20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ 50 dBm; Reference : 100 MHz; 2 GHZHZ ~ 1 MHz± 0.25 dBLEVEL MEASUREMENT UNCERTAINTURCERTAINTURCERTAINTURCERTAINTURCERTAINTURCERTAINTURCE
Level Display Modes Trace, Topographic, Spectrogram Single/Split Windows Number of Traces 4 Positive-peak, negative-peak, sample, normal, RMS (not Video), Vausi-Peak (EMI), Average (EMI), Clear & Write, Max/Min Hold View, Blank, Average Single/Split Windows ABSOLUTE AMPLITUDE ACCURACY Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; Useak detector; 23°C±1°C; Signal at Reference Level AdB Preamp Off ± 0.3 dB Ref level 0 dBm; 10 dB RF attenuation Preamp Off ± 0.3 dB Ref level 0 dBm; 30 dB RF attenuation FREQUENCY RESPONSE
Detector Trace Functions Positive-peak, negative-peak, sample, normal, RMS (not Video), Quasi-Peak (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, Average ABSOLUTE AMPLITUDE ACCURACY E ABSOLUTE AMPLITUDE ACCURACY E Absolute Point Center=160 MHz; RBW 10 kHz; VBW 1 kHz; span 100 kHz; log scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference Level Preamp Off Add Preamp Off ± 0.3 dB Ref level 0 dBm; 1 0 dB RF attenuation Reflevel 0 dBm; -30 dB RF attenuation Reflevel 0 dBm; -30 dB RF attenuation Preamp Off Attenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB Clear 4 ± 0.5 dB Preamp On Attenuation : 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.7 dB Reflevel 0 dBm; -30 dB RF attenuation ZGHZ - 3 GHz ± 0.6 dB ± 0.7 dB Reference: 160 MHz; 20 ~ 30°C Kefterence: 160 MHz; 20 ~ 30°C I MB // 2 GHz ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C Kefterence: 160 MHz; 10dB attenuation Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C Kefterence: 160 MHz; 10dB attenuation Reference: 100 MHz; 10dB attenuation Qiety - 2 GHz ± 0.5 dB Reference: 160 MHz; 10dB attenuation Reference: 160 MHz; 10dB attenuation Attenuation: 0 dB; Reference: 10 MZ z BB ± 0.25 dB Reference: 10 MHz RBW
Trace FunctionsQuasi-Peak (EMI), Average (EMI), Clear & Write, Max/Min Hold, View, Blank, AverageABSOLUTE AMPLITUDE ACCURACYABSOLUTE AMPLITUDE ACCURACYABSOLUTE AMPLITUDE ACCURACYPreamp Off± 0.3 dBbreamp On± 0.4 dBPreamp Off0.4 dBPreamp Off2 GHz ~ 3 GHz+ 0.7 dBAttenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C± 0.5 dB± 0.7 dBPreamp OnAttenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C± 0.5 dB± 0.7 dBPreamp OnAttenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C± 0.5 dB± 0.7 dBPreamp OnAttenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C± 0.5 dB± 0.7 dBReference : 160 MHz; 20 ~ 30°C± 0.5 dB± 0.5 dB± 0.5 dBTREQUENCYVerall Amplitude Accuracy± 1.5 dB± 0.5 dB20 - 30°C; frequency > 1 MHz; Signal input 0 - 50 dBm; Reference level 050 dBm; Input attenuation 10 dB; Reference level 050 dBm; Inpu
ABSOLUTE AMPLITUDE ACCURACY Center=160 MHz ; RBW 10 kHz; VBW 1 kHz; span 100 kHz; log scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference Level Preamp Off ± 0.3 dB Ref level 0 dBm; 10 dB RF attenuation Preamp On ± 0.4 dB Ref level 0 dBm; 10 dB RF attenuation FREQUENCY RESPONSE Attenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.7 dB Preamp Off Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.7 dB 100 kHz ~ 2 GHz ± 0.6 dB E Reference : 160 MHz; 20 ~ 30°C MHz ~ 3 GHz ± 0.7 dB Reference: 160 MHz; 20 ~ 30°C Reference : 160 MHz; 20 ~ 30°C I MHz ~ 2 GHz ± 0.8 dB Reference: 160 MHz; 20 ~ 30°C Reference : 160 MHz, 10dB attenuation Uncertainty ± 0.25 dB Reference : 160 MHz, 10dB attenuation Reference : 160 MHz, 10dB attenuation Hz ~ 1 MHz ± 0.25 dB Reference : 10 kHz RBW Reference : 10 kHz RBW Uvcertail Amplitude Accuracy ± 1.5 dB Reference i lo kHz RBW 1 kHz; after cal; Preamp Off Typical
Absolute Point Center=160 MHz ; RBW 10 kHz; VBW 1 kHz; span 100 kHz; log scale; 1 dB/div; peak detector; 23°C±1°C; Signal at Reference Level Preamp Off Preamp On ± 0.3 dB ± 0.4 dB Ref level 0 dBm; 10 dB RF attenuation Ref level 0 dBm; -30 dB RF attenuation FREQUENCY RESPONSE Preamp Off 100 kHz ~ 2.0 GHz 2GHz ~ 3 GHz 2GHz ~ 3 GHz Attenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB ± 0.7 dB ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB ± 0.8 dB Reference: 160 MHz; 20 ~ 30°C Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.8 dB Reference: 160 MHz; 20 ~ 30°C Mattenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.8 dB Reference: 160 MHz; 20 ~ 30°C I MHz ~ 2 GHz 2 GHz ~ 3 GHz ± 0.6 dB Reference: 160 MHz; 10dB attenuation Reference: 160 MHz; 10dB attenuation Mattenuator Setting Uncertainty 0 ~ 50 dB in 1 dB step ± 0.25 dB Reference: 10 MHz, 10dB attenuation I Hz ~ 1 MHz ± 0.25 dB Reference: 10 kHz RBW LEVEL MEASUREMENT UNCERTAINT/ Z0 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW filtz; VBW 1 kHz; vBW 1 kHz; after cal; Preamp Off Typical
Preamp On ± 0.4 dB Ref level 0 dBm; -30 dB RF attenuation FREQUENCY RESPONSE
FREQUENCY RESPONSEPreamp Off 100 kHz ~ 2.0 GHzAttenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.5 dB2CHz ~ 3 GHz ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C ± 0.6 dB2CHz ~ 3 GHz ± 0.6 dB ± 0.8 dBAttenuation SwittCHING UNCERTAINTYAttenuator Setting Uncertainty $0 ~ 50$ dB in 1 dB step ± 0.25 dBRBW FILTER SWITCHING UNCERTAINTY1 Hz ~ 1 MHz ± 0.25 dBREV FILTER SWITCHING UNCERTAINTYOverall Amplitude Accuracy ± 1.5 dB ± 0.5 dBReference : 10 kHz RBWUncertainty $20 ~ 30°C$; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW N 1kHz; VBW 1 kHz; after cal; Preamp Off Typical
Preamp Off 100 kHz ~ 2.0 GHzAttenuation : 10 dB; Reference: 160 MHz; 20 ~ 30°C $\pm 0.5 dB$ 2GHz ~ 3 GHz $\pm 0.7 dB$ Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C $\pm 0.6 dB$ 2 GHz ~ 2 GHz $\pm 0.6 dB$ Attenuation: SWITCHING UNCERTAINTYAttenuator Setting Uncertainty $0 ~ 50 dB in 1 dB step$ $\pm 0.25 dB$ 1 Hz ~ 1 MHz $\pm 0.25 dB$ LEVEL MEASUREMENT UNCERTAINTYOverall Amplitude Accuracy $\pm 1.5 dB$ $\pm 0.5 dB$ $20 ~ 30°C$; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW Hz; vBW 1 kHz; after cal; Preamp Off Typical
2GHz ~ 3 GHz ± 0.7 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C 1 MHz ~ 2 GHz ± 0.6 dB ± 0.8 dB 2 GHz ~ 3 GHz ± 0.6 dB ± 0.8 dB Attenuation: 0 dB; Reference: 160 MHz; 20 ~ 30°C # 0.8 dB ATTENUATION SWITCHING UNCERTAINE Attenuator Setting Uncertainty 0 ~ 50 dB in 1 dB step ± 0.25 dB RBW FILTER SWITCHING UNCERTAINE I Hz ~ 1 MHz ± 0.25 dB REVE INCERTAINE Overall Amplitude Accuracy ± 1.5 dB ± 0.5 dB 20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ .50 dBm; Reference level 0 ~ .50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off
1 MHz ~ 2 GHz ± 0.6 dB 2 GHz ~ 3 GHz ± 0.8 dB ATTENUATION SWITCHING UNCERTAINTY Attenuator Setting Uncertainty 0 ~ 50 dB in 1 dB step ± 0.25 dB RBW FILTER SWITCHING UNCERTAINTY I Hz ~ 1 MHz ± 0.25 dB REVELINE SWITCHING UNCERTAINTY Overall Amplitude Accuracy ± 1.5 dB ± 0.5 dB 20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW I kHz; VBW 1 kHz; after cal; Preamp Off Typical
ATTENUATION SWITCHING UNCERTAINTY Attenuator Setting Uncertainty $0 \sim 50 \text{ dB in 1 dB step} \pm 0.25 \text{ dB}$ Reference : 160 MHz, 10dB attenuation RBW FILTER SWITCHING UNCERTAINTY $\pm 0.25 \text{ dB}$ Reference : 10 kHz RBW LEVEL MEASUREMENT UNCERTAINTY $\pm 0.25 \text{ dB}$ Reference : 10 kHz, Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW I kHz; VBW 1 kHz; after cal; Preamp Off Typical
Attenuator Setting Uncertainty 0 ~ 50 dB in 1 dB step ± 0.25 dB Reference : 160 MHz, 10dB attenuation RBW FILTER SWITCHING UNCERTAINTY Image: the state of
RBW FILTER SWITCHING UNCERTAINTY 1 Hz ~ 1 MHz ± 0.25 dB Reference : 10 kHz RBW LEVEL MEASUREMENT UNCERTAINTY Overall Amplitude Accuracy ± 1.5 dB 20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ .50 dBm; Reference level 0 ~ .50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical
1 Hz ~ 1 MHz ± 0.25 dB Reference : 10 kHz RBW LEVEL MEASUREMENT UNCERTAINTY 20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical
Overall Amplitude Accuracy ± 1.5 dB 20 ~ 30°C; frequency > 1 MHz; Signal input 0 ~ -50 dBm; Reference level 0 ~ -50 dBm; Input attenuation 10 dB; RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical
± 0.5 dB Reference level 0 ~ -50 dBm; Input attenuation 10 dB; BBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical
± 0.5 dB RBW 1 kHz; VBW 1 kHz; after cal; Preamp Off Typical
Second Harmonic Intercept Preamp off; signal input -30dBm; 0 dB attenuation
+35 dBm +60 dBm Typical; 10 MHz < fc < 775 MHz Typical; 775 MHz ≤ fc < 1.625 GHz
Third-order Intercept Preamp off; signal input -30dBm; 0 dB attenuation > 1dBm 300 MHz ~ 3 GHz
Input Related Spurious < -60 dBc
input terminated; V dB attenuation; Preamp off

SPECIFICATIONS					
SWEEP					
SWEEP TIME					
Range	204 μs ~ 1000 s 50 μs ~ 1000 s		Span > 0 Hz		
Sweep Mode	50 μs ~ 1000 s Continuous; Single		Span = 0 Hz; Min resolution = 10µ s		
Trigger Source	Free run; Video; External				
Trigger Slope	Positive or negative edge				
RF PREAMPLIFIER					
Frequency Range Gain	1 MHz ~ 3 GHz 18 dB		Nominal (installed as standard)		
FRONT PANEL INPUT/OUTPUT	10 00				
REINPUT					
Connector Type	N-type female				
Impedance VSWR	50Ω <1.6:1		Nominal 300 kHz ~ 3 GHz ; Input attenuator ≥ 10 dB		
POWER FOR OPTION	<1.0.1		SOURHZ~3 GHZ; Input attenuator = 10 dB		
Connector Type	SMB male				
Voltage/Current	DC +7V/500 mA max		With short-circuit protection		
USB HOST					
Connector Type Protocol	A plug Version 2.0		Support Full/High/Low speed		
MICRO SD SOCKET	10131011 2.0		Support run, right zon speed		
Protocol	SD 1.1				
Support Cards	Micro SD, Micro SDHC		Up to 32GB capacity		
REAR PANEL INPUT/OUTPUT					
REFERENCE OUTPUT	PNC County				
Connector Type Output Frequency	BNC female 10 MHz		Nominal		
Output Amplitude	3.3V CMOS				
	50 Ω				
REFERENCE INPUT Connector Type	BNC female				
Input Reference Frequency	10 MHz				
Input Amplitude Frequency Lock Range	-5 dBm ~ +10 dBm Within ± 5 ppm of the input reference freq	LIANCY			
ALARM OUTPUT	within \pm 5 ppm of the input reference freq	uency			
Connector Type	BNC female		Open-collector		
TRIGGER INPUT/GATED SWEEP INPU	Т				
Connector Type Input Amplitude	BNC female				
Switch	3.3V CMOS Auto selection by function				
LAN TCP/IP INTERFACE	· ·				
Connector Type	RJ-45				
Base USB DEVICE	10Base-T; 100Base-Tx; Auto-MDIX				
Connector Type	B plug		For remote control only; supports USB TMC		
Protocol	Version 2.0		Supports Full/High/Low speed		
IF OUTPUT					
Connector Type Impedance	SMA female 50Ω		Nominal		
IF Frequency	886 MHz		Nominal		
Output Level EARPHONE OUTPUT	-25 dBm		10 dB attenuation; RF input : 0 dBm @ 1 GHz		
Connector Type	3.5mm stereo isck wired for more operation				
VIDEO OUTPUT	3.5mm stereo jack, wired for mono operation				
Connector Type	DVI-I (integrated analog and digital), Singl	e Link. Compatible	with VGA or HDMI standard through adapter		
RS-232C INTERFACE					
Connector Type	D-sub 9-pin female		Tx , Rx , RTS , CTS		
GPIB INTERFACE (OPTIONAL)					
Connector Type	IEEE-488 bus connector				
AC POWER INPUT Power Source	AC 100 V ~ 240 V, 50/60 Hz		Auto rango coloction		
BATTERY PACK (OPTIONAL)	100 V - 240 V, 30/00 112		Auto range selection		
Battery Pack	6 cells, Li-Ion rechargeable, 3S2P		With UN38.3 Certification		
Voltage Capacity	DC 10.8 V 5200 mAh/56Wh				
GENERAL	5200 mAn/ 50 wit				
Internal Data Storage	16 MB nominal				
Power Consumption	< 65 W				
Warm-up Time Temperature Range	< 30 minutes +5 °C ~ + 45 °C		Operating		
	-20 °C ~ + 70 °C	r.	Storage		
Dimensions & Weight	350(W) x 210(H) x 100(D) mm, Approx. 4. 13.8(W) x 8.3(H) x 3.9(D) inch, Approx. 9.9		Inc. all options (Basic + TG + GPIB + Battery)		
TRACKING GENERATOR (OPTION					
Frequency Range	100 kHz ~ 3 GHz				
Output Power Connector Type	-50 dBm ~ 0 dBm in 0.5 dB steps		500 Nominal		
Output VSWR	N-type female < 1.6 : 1		50Ω Nominal 300 kHz ~ 3 GHz, source attenuation ≥12 dB		
· ·	GSP-9300B is powered on for at least 30 minut	es Specific	ations subject to change without notice. GSP-9300BGD1DH		
to warm-up to a temperature of 20 °C to 30 °C, unless specified otherwise.					
			OPTIONS		
GSP-9300B 3 GHz Spectrum Ana	lvzer	Opt.01 Trackir			
EMC Pretest Solution : GKT-008	EMI Near Field Probe Set	Opt.02 Battery Pack			
GLN-5040A Line Impedance Stabilization Network GIT-5060 Isolation transformer		OPTIONAL ACCESSORIES CSC-009 Soft Carrying Case			
					GPL-5010
ACCESSORIES :					
	-ROM (with Quick Start Guide, User Manual,	SpectrumShot	PC Software for Windows System (available on GW Instek website) borts LabVIEW/LabWindows/CVI Programming (available on NI website)		



Simply Reliable