

GSP827

Spectrum Analyzer



GSP-827
(9kHz ~ 2.7GHz)

FEATURES

Superior Performance:

- Frequency Range: 9kHz~2.7GHz.
- Input Range: -100dBm~+20dBm
- Average Noise Floor: -130dBm/Hz
- Power Measurements: ACPR/OCBW/CH Power
- Split Window: Simultaneous Measurements in Two Separate Frequency Spans
- RBW: 3KHz, 30KHz, 300KHz, 4MHz
- 300Hz RBW, EMI Filters, AM/FM Demodulation options available

Portability:

- Light Weight at 4.5kg and Compact Size
- AC/DC/Battery Operation
- 100 Trace/State Memories with Date/Time stamp and file name

Easy-To-Use:

- 10 Markers: Delta Mode, Peak Search, Peak Track
- Trace Function: Dual-Trace Display, Peak Hold, Freeze, Average, Trace Math
- Limit Line: Upper/Lower Limit with Pass/Fail Test
- Trigger Function: Video/ External
- Clock/Calendar: Time/Date Stamp in Saved Data
- Wide Range of External Reference Clock: 1MHz...19.2MHz

SPECIFICATIONS

Frequency

Frequency Range	9kHz-2.7GHz
Frequency Accuracy	See time base
Span Range	2kHz to 2.5GHz in 1-2-5 sequence, full span, zero span
Span Accuracy	See time base
Phase Noise	-85dBc/Hz @1GHz 20kHz Offset typical
Time Base	± 10ppm, 0-50°C, 5ppm/yr

Resolution Bandwidth

RBW Range	3kHz, 30kHz, 300kHz, 4MHz
RBW Accuracy	15%
Video Bandwidth Range	10Hz to 1MHz in 1-3 steps
Sweep time	100ms to 25.6s

Amplitude

Measurement Range	-100dBm to +20dBm: 1M~2.5GHz @ 3k RBW -95dBm to +20dBm: 2.5GHz~2.7GHz @ 3k RBW -70dBm to +20dBm: 150k to 1MHz @ 3k RBW -60dBm to +20dBm: 50k to 150kHz @ 3k RBW
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Reference Level Range	-30dBm to +20dBm, overload protected
Accuracy	± 1.5dB @100MHz
Frequency Flatness	± 1.5dB
Display Range Linearity	± 1.5dB over 70dB

Dynamic range

Average Noise Floor	-130dBm/Hz: 1MHz to 2.5GHz -125dBm/Hz: 2.5GHz to 2.7GHz -105dBm/Hz: 150k~1MHz -95dBm/Hz: 50k~150kHz
Third Inter-modulation	< -70dBc @-40dBm Input, 2MHz apart
Harmonic Distortion	< -60dBc @-40dBm Input
Non-harmonic Spurious	< -60dB typical Down from Reference Level 150k to 2.7GHz

Input

RF Input Overload protection	+30dBm, 25VDC
RF Input Impedance	50Ω[nominal
RF Input Return Loss	<1.5:1 @ 0dBm Reference Level
RF Input Connector	Type: N female
External Reference Input	1M, 1.544M, 2.048M, 5M, 10M, 10.24M, 13M, 15.36M, 15.4M, 19.2M

Output

Reference Clock Output	10MHz
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Features

Marker Mode	Normal and Delta Mode
Marker Number	Up to 10 in Multi Marker Mode
Peak Search	To Peak, To Center, Next Peak, Peak Right, Peak Left and Peak Track
Trace Number	2, Tr A and B for Display Memory
Trace Function	Peak Hold, Average, Freeze, Math Detect: Sample, Peak+, AVG 1/2/3, Quasi-Peak

General

Display	640 x 480 high resolution graphical LCD, B&W
RS-232	Sub-D 9 pins female

Power Source

Line Voltage Range	100V ~ 240V AC, automatic selection
Line Frequency	48Hz ~ 63Hz
Power Consumption	85Watts, 95VA maximum, with fan

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