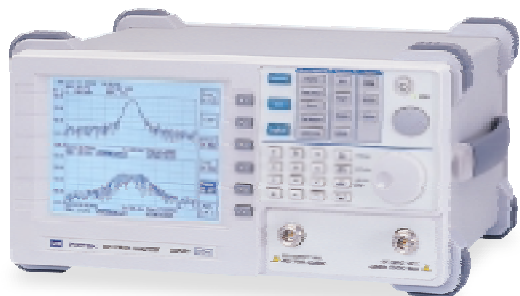


Spectrum Analyzer

NEW



GSP-827 (9kHz~2.7GHz)

FEATURES

- * Frequency Range : 9kHz ~ 2.7GHz
- * Input Range : -100dBm ~ +20dBm
- * Average Noise Floor : -100dBm
- * Power Measurements : ACPR/OCBW/CH Power
- * Split Window: Simultaneous Measurements in Two Separate Frequency Spans
- * 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
- * 100 Trace/State Memories with Date/Time Stamp and File Name
- * TG : 9kHz ~ 2.7GHz, -50dBm ~ 0dBm (Option)
- * AC/DC/Battery Operation (Option)
- * Compact Size and Light Weight at 4.5kg

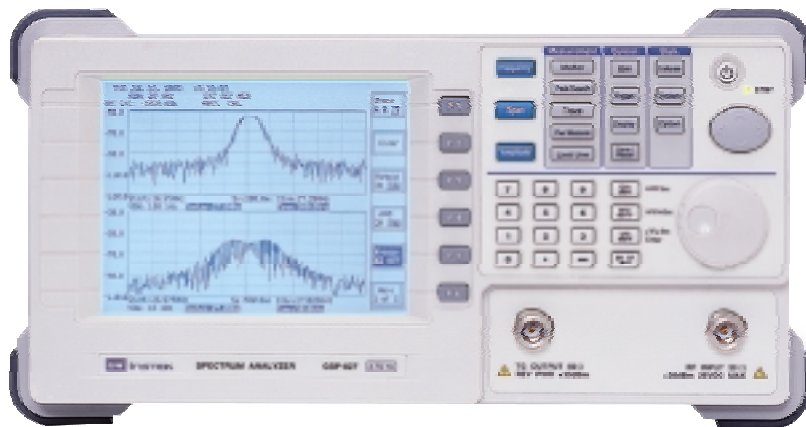
SPECIFICATIONS

FREQUENCY	
Frequency Range	9kHz~2.7GHz
Aging Rate	± 10ppm, 0~50 °C, 5ppm/yr
Span Range	2kHz~ 2.5GHz in 1-2-5 sequence, full span, zero span
Phase Noise	-85dBc/Hz @1GHz 20kHz offset typical
Sweep Time Range	50ms~25.6s
RESOLUTION BANDWIDTH	
RBW Range	3kHz, 30kHz, 300kHz, 4MHz
RBW Accuracy	15%
Video Bandwidth Range	10Hz~1MHz in 1-3 steps
AMPLITUDE	
Measurement Range	-100dBm~+20dBm : 1MHz~2.5GHz @3k RBW -95dBm~+20dBm : 2.5GHz~2.7GHz @3k RBW -75dBm~+20dBm : 150kHz~1MHz @3k RBW -65dBm~+20dBm : 50kHz~150kHz @3k RBW
Overload Protection	+30dBm, ±25VDC
Reference Level Range	-30dBm~+20dBm
Amplitude Display Range	75dB
Amplitude Accuracy	± 1.5dB @100MHz
Frequency Flatness	± 1.5dB
Amplitude Level Linearity	± 1.5dB over 70dB
DYNAMIC RANGE	
Average Noise Floor	-100dBm: 1MHz~2.5GHz -95dBm: 2.5GHz~2.7GHz -75dBm: 150kHz~1MHz -65dBm: 50kHz~150kHz
Third Inter-Modulation	<-70dBc @-40dBm Input, 2MHz apart
Harmonic Distortion	<-60dBc @-40dBm Input
Non-Harmonic Spurious	<-60dBc @typical down from Reference Level 150k~2.7GHz
DISPLAY SYSTEM	
Display Device	640 x 480 high resolution graphical LCD, B&W
Display Function	Contrast, backlight ON/OFF, Invert screen split window: upper and lower

SPECIFICATIONS

FUNCTIONS	
Marker Mode	Normal and delta mode Number: Up to 10 in multi marker mode
Internal Memory	100 traces and setup for Save/Recall
Peak Search	To peak, to center, next peak, peak right, peak left and peak track
Trace Number	Number:2, tr A and B for display memory Functions: peak hold, average, freeze, math. Detect: sample, peak+, AVG 1/2/3, quasi-peak
Power Measurement	ACPR x 2, OCBW, Channel Power
Trigger	Functions: Video, External Mode: continuous, single Source: video, external (0~5V rising edge) Setting: Trigger delay, Trigger frequency
Limit Line	Number: 2, high and low Functions: Edit:Insert, Delect, Undo Pass/Fail
Calibrate Signal	100MHz, -30dBm
Interface	RS-232C standard
CONNECTORS	
RF Input	Type : N female, 50Ω nominal RF input VSWR : <1.5:1, @0dBm Reference Level
External Reference	Type: BNC female
Clock Input	1M, 1.544M, 2.048M, 5M, 10M, 10.24M, 13M, 15.36M, 15.4M, 19.2M
Reference Clock Output	Type:BNC female, 10MHz
DC Input	Jack:5.5mm, 12V
RS-232C	Sub-D 9 pins female
POWER SOURCE	AC 100 ~ 240V, 48 ~ 63Hz
ACCESSORIES	Instruction manual x 1, Power cord x 1
DIMENSIONS & WEIGHT	330(W) x 170(H) x 340(D) mm, Approx. 4.5kg

Note: Need to Collocate the Optional Accessories.



GSP-827

ORDERING INFORMATION

GSP-827 2.7GHz Spectrum Analyzer

Option

Opt. 01 Tracking Generator

Frequency Range 9kHz ~ 2.7GHz
Amplitude Range -50dBm ~ 0dBm
Amplitude Accuracy $\pm 1\text{dB}@100\text{MHz}$, 0dBm
Amplitude Flatness $\pm 1.5\text{dB}@0\text{dBm}$
Harmonics $<-30\text{dBc}$ typical
Reverse Power +30dBm
Impedance Type: N female, 50 Ω nominal
RF Output VSWR $< 1.5 : 1$

Opt. 02 AC/DC/Battery Operation with Battery pack
 AC 100V ~ 240V, DC 12V and 10.8V Li-Ion battery pack x 2)

Opt. 03 $\pm 1\text{ppm}$ Stability
 $\pm 1\text{ppm}$, 0 ~ 50°C, $\pm 1\text{ppm/yr}$

Opt. 06 GPIB Interface
 IEEE 488 bus

Opt. 07 Soft Carrying Case
 GSC-001

Opt. 08 General Kit set
 ADP-002: adaptor, SMA(J/F) ~ N(P/M) x 2
 ATN-100: 10dB attenuator, N(J) ~ N(P) x 1
 GTL-303: RF cable assembly(SMA(P),RD316,600mm)x2
 GSC-002: Kit box x 1

Opt. 09 CATV Kit set
 ADP-001: adaptor, BNC(J/F) ~ N(P/M) x 2
 ADP-101: adaptor, BNC(J/F)75 Ω ~ BNC(P/M)50 Ω x 2
 GTL-304: RF cable assembly(RG223, N(P)-N(J), 300mm)x2
 GSC-003: Kit box x 1

Opt. 10 RLB Kit set
 GAK-001: termination 50 Ω , N(P) x 1
 GAK-002: Cap with chain, N(P) x 1
 GTL-302: RF cable assembly(RG223, N(P), 300mm)x2
 GSC-004: Kit box x 1

Opt. 11 DC Power Line
 GTL-401: DC power cord with DC Jack and lighter plug, Current 5A

Opt. 12 EMI Filters (*)
 RBW Selections: 9kHz and 120kHz, 6dB bandwidth
 RBW Accuracy: 15%

Opt. 13 Demodulator (*)
 Demodulation: AM, FM
 Output: Internal speaker, 3.5mm stereo jack wired for mono operation

Opt. 14 EMI filters and 300Hz RBW (*)
 RBW Selections: 9kHz and 120kHz, 6dB bandwidth 300Hz, 3dB bandwidth
 RBW Accuracy: 15%

Opt. 15 EMI filters and Demodulator (*)

RBW Selections: 9kHz and 120kHz, 6dB bandwidth
 RBW Accuracy: 15%
 Demodulation: AM, FM
 Output: Internal speaker, 3.5mm stereo jack wired for mono operation

Opt. 16 EMI filters, 300Hz RBW and Demodulator (*)

RBW Selections: 9kHz and 120kHz, 6dB bandwidth
 300Hz, 3dB bandwidth
 RBW Accuracy: 15%
 Demodulation: AM, FM
 Output: Internal speaker, 3.5mm stereo jack wired for mono operation

Note (*): Only one option could be selected among option 12 to 16 for any given GSP-827 unit.