



Spectrum Master™ MS2712E and MS2713E Specifications



Spectrum Analyzer (continued)

Spectral Purity

SSB Phase Noise @ 1 GHz	-100 dBc/Hz, -110 dBc/Hz typical @ 10 kHz offset
	-105 dBc/Hz, -112 dBc/Hz typical @ 100 kHz offset
	-115 dBc/Hz, -121 dBc/Hz typical @ 1 MHz offset

Amplitude Ranges

Dynamic Range	>95 dB (2.4 GHz), 2/3 (TOI-DANL) in 10 Hz RBW
Measurement Range	DANL to +26 dBm
Display Range	1 to 15 dB/div in 1 dB steps, ten divisions displayed
Reference Level Range	-130 dBm to +30 dBm
Attenuator Range	0 to 55 dB in 5 dB steps
Amplitude Units	Log Scale Modes: dBm, dBV, dBmV, dBμV Linear Scale Modes: nV, μV, mV, V, kV, nW, μW, mW, W, kW

Amplitude Accuracy

100 kHz to 4.0 GHz	±1.25 dB, ±0.5 dB typical
>4.0 GHz to 6 GHz	±1.50 dB, ±0.5 dB typical

Displayed Average Noise Level (DANL)

	Preamp Off (Reference level -20 dBm)		Preamp On (Reference level -50 dBm)	
	Maximum	Typical	Maximum	Typical
(RBW Normalized to 1 Hz, 0 dB attenuation)				
10 MHz to 2.4 GHz	-141 dBm	-146 dBm	-157 dBm	-162 dBm
>2.4 GHz to 4 GHz	-137 dBm	-141 dBm	-154 dBm	-159 dBm
>4 GHz to 5 GHz	-134 dBm	-138 dBm	-150 dBm	-155 dBm
>5 GHz to 6 GHz	-126 dBm	-131 dBm	-143 dBm	-150 dBm
(RBW = 10 Hz, 0 dB attenuation)				
10 MHz to 2.4 GHz	-131 dBm	-136 dBm	-147 dBm	-152 dBm
>2.4 GHz to 4 GHz	-127 dBm	-131 dBm	-144 dBm	-149 dBm
>4 GHz to 5 GHz	-124 dBm	-128 dBm	-140 dBm	-145 dBm
>5 GHz to 6 GHz	-116 dBm	-121 dBm	-133 dBm	-140 dBm

Spurs

Residual Spurious	<-90 dBm (RF input terminated, 0 dB input attenuation, > 10 MHz)
Input-Related Spurious	<-75 dBc (0 dB attenuation, -30 dBm input, span <1.7 GHz, carrier offset >4.5 MHz)
Exceptions, typical	<-70 dBc @ <2.5 GHz, with 2072.5 MHz Input <-68 dBc @ F1-280 MHz with F1 Input <-70 dBc @ F1 + 190 MHz with F1 Input <-52 dBc @ 7349-2F2 MHz, with F2 Input, where F2 < 2424.5 MHz

Third-Order Intercept (TOI)

	Preamp Off (-20 dBm tones 100 kHz apart, 10 dB attenuation)
800 MHz	+16 dBm
2400 MHz	+20 dBm
200-2200 MHz	+25 dBm, typical
>2.2 GHz to 5.0 GHz	+28 dBm, typical
>5.0 GHz to 6.0 GHz	+33 dBm, typical

Second Harmonic Distortion

	Preamp Off, 0 dB input attenuation, -30 dBm input
50 MHz	-56 dBc
>50 MHz to 200 MHz	-60 dBc, typical
>200 MHz to 3000 MHz	-70 dBc, typical

VSWR

2:1, typical

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2-Port Transmission Measurement (Option 0021)

Frequency

Frequency Range	2 MHz to 4 GHz (MS2712E), 2 MHz to 6 GHz (MS2713E)
Frequency Resolution	10 Hz

Output Power

High	0 dBm, typical
Low	-30 dBm, typical

Dynamic Range

2 MHz to 4 GHz	80 dB
>4 GHz to 6 GHz	70 dB
Application Options	Bias-Tee (On/Off), Impedance (50 Ω , 75 Ω , Other)

Bias-Tee (Option 0010)

Setup	On/Off, Voltage, Current (Low/High)
Voltage Range	+12 to +32 V
Current (Low/High)	250 mA/450 mA, 1 A surge for 100 ms
Resolution	0.1 V

GPS Receiver Option (Option 0031) (Antenna sold separately, P/N 2000-1528-R)

Setup	On/Off, Antenna Voltage 3.3/5.0 V, GPS Info
GPS Time/Location Indicator	Time, Latitude, Longitude and Altitude on display Time, Latitude, Longitude and Altitude with trace storage
High Frequency Accuracy when GPS Antenna is connected	Spectrum Analyzer, Interference Analyzer, CW Signal Generator < \pm 50 ppb with GPS On, 3 minutes after satellite lock in selected mode
Connector	SMA, female

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Power Meter (Option 0029)

Frequency	Center/Start/Stop, Span, Frequency Step, Signal Standard, Channel #, Full Band
Amplitude	Maximum, Minimum, Offset, Relative On/Off, Units, Auto Scale
Average	Acquisition Fast/Med/Slow, # of Running Averages
Limits	Limit On/Off, Limit Upper/Lower
Frequency Range	10 MHz to 4 GHz (MS2712E), 10 MHz to 6 GHz (MS2713E)
Span	1 kHz to 100 MHz
Display Range	-140 dBm to +30 dBm, ≤40 dB span
Measurement Range	-120 dBm to +26 dBm
Offset Range	0 to +100 dB
VSWR	2:1 typical
Maximum Power	+26 dBm without attenuator
Accuracy	Same as Spectrum Analyzer
Application Options	Impedance (50 Ω, 75 Ω, Other)



High Accuracy Power Meter (Option 0019) (Requires external USB Power Sensor(s))

Amplitude	Maximum, Minimum, Offset, Relative On/Off, Units, Auto Scale				
Average	# of Running Averages, Max Hold				
Zero/Cal	Zero On/Off, Cal Factor (Center Frequency, Signal Standard)				
Limits	Limit On/Off, Limit Upper/Lower				

Power Sensor Model	PSN50	MA24104A	MA24106A	MA24108A	MA24118A
Description	High Accuracy RF Power Sensor	Inline High Power Sensor	High Accuracy RF Power Sensor	Microwave USB Power Sensor	Microwave USB Power Sensor
Frequency Range	50 MHz to 6 GHz	600 MHz to 4 GHz	50 MHz to 6 GHz	10 MHz to 8 GHz	10 MHz to 18 GHz
Connector	Type N(m), 50 Ω	Type N(m), 50 Ω	Type N(m), 50 Ω	Type N(m), 50 Ω	Type N(m), 50 Ω
Dynamic Range	-30 to +20 dBm (.001 to 100 mW)	+3 to +51.76 dBm (2 mW to 150 W)	-40 to +23 dBm (0.1 μW to 200 mW)	-40 to +20 dBm (0.1 μW to 100 mW)	-40 to +20 dBm (0.1 μW to 100 mW)
VBW	100 Hz	100 Hz	100 Hz	50 kHz	50 kHz
Measurand	True-RMS	True-RMS	True-RMS	True-RMS, Slot Power, Burst Average Power	True-RMS, Slot Power, Burst Average Power
Measurement Uncertainty	±0.16 dB ¹	±0.17 dB ²	±0.16 dB ¹	±0.18 dB ³	±0.18 dB ³
Datasheet (for complete specifications)	11410-00414	11410-00483	11410-00424	11410-00504	11410-00504

Notes:

- 1) Total RSS measurement uncertainty (0 °C to 50 °C) for power measurements of a CW signal greater than -20 dBm with zero mismatch errors.
- 2) Expanded uncertainty with K=2 for power measurements of a CW signal greater than +20 dBm with a matched load. Measurement results referenced to the input side of the sensor.
- 3) Expanded uncertainty with K=2 for power measurements of a CW signal greater than -20 dBm with zero mismatch errors.

Spectrum Master™ MS2712E and MS2713E Specifications



Interference Analyzer (Option 0025)

Measurements	Spectrum Field Strength Occupied Bandwidth Channel Power Adjacent Channel Power (ACPR) AM/FM/SSB Demodulation (Wide/Narrow FM, Upper/Lower SSB), (audio out only) Carrier-to-Interference ratio (C/I) Spectrogram (Collect data up to one week) Signal Strength (Gives visual and aural indication of signal strength) Received Signal Strength Indicator (RSSI) (collect data up to one week) Gives visual and aural indication of signal strength Signal ID (up to 12 signals) Center Frequency Bandwidth Signal Type (FM, GSM, W-CDMA, CDMA, Wi-Fi) Closest Channel Number Number of Carriers
Application Options	Signal-to-Nose Ratio (SNR) >10 dB Bias-Tee (On/Off), Impedance (50 Ω, 75 Ω, Other)



Channel Scanner (Option 0027)

Number of Channels	1 to 20 Channels (Power Levels)
Measurements	Graph/Table, Max Hold (On/5 sec/Off), Freq/Channel, Current/Max, Single/Dual Color
Scanner	Scan Channels, Scan Frequencies, Scan Customer List, Scan Script Master™
Amplitude	Reference Level, Scale
Custom Scan	Signal Standard, Channel, # of Channels, Channel Step Size, Custom Scan
Frequency Range	100 kHz to 4 GHz (MS2712E), 100 kHz to 6 GHz (MS2713E)
Frequency Accuracy	±10 Hz + Time base error
Measurement Range	-110 dBm to +26 dBm
Application Options	Bias-Tee (On/Off), Impedance (50 Ω, 75 Ω, Other)



CW Signal Generator Option (Option 0028) (Requires CW Signal Generator Kit, P/N 69793)

Setup Parameters

Frequency	Frequency, Signal Standard, Channel Number, Display Setup Help
Amplitude	Power Level (Low/High), Offset (dB)
Frequency Range	25 MHz to 2 GHz typical
Output Power	High 0 dBm typical, Low -30 dBm typical Attenuator (included in kit 69793): 0 to 90 dB in 1 dB steps

Gated Sweep (Option 0090)

Mode	Spectrum Analyzer, Sweep
Trigger	External TTL
Setup	Gated Sweep (On/Off) Gate Polarity (Rising, Falling) Gate Delay (0 to 65 ms typical) Gate Length (1 μs to 65 ms typical) Zero Span Time

Spectrum Master™ MS2712E and MS2713E Specifications

General Specifications

All specifications and characteristics apply under the following conditions, unless otherwise stated: 1) After 5 minutes of warm-up time, where the instrument is left in the ON state; 2) All specifications apply when using internal reference; 3) All specifications subject to change without notice; 4) Typical performance is the measured performance of an average unit; 5) Recommended calibration cycle is 12 months.

Setup Parameters

System	Status (Temperature, Battery Info, Serial Number, Firmware Version, Options Installed) Self Test, Application Self Test GPS (see Option 0031)
System Options	Name, Date and Time, Brightness, Volume Language (English, French, German, Spanish, Chinese, Japanese, Korean, Italian, User defined) Reset (Factory Defaults, Master Reset, Update Firmware)
File	Save, Recall, Delete, Directory Management
Save/Recall	Setups, Measurements, Screen Shots Jpeg (save only)
Delete	Selected File, All Measurements, All Mode Files, All Content
Directory Management	Sort Method (Name/Type/Date), Ascend/Descend, Internal/USB, Copy, Format USB
Internal Trace/Setup Memory	2,000 traces, 2,000 Setups
External Trace/Setup Memory	Limited by size of USB Flash drive
Mode Switching	Auto-Stores/Recalls most recently used Setup Parameters in the Mode

Connectors

RF Out	Type N, female, 50 Ω (Reflection In)
RF Out Damage Level	23 dBm, ±50 VDC
RF In	Type N, female, 50 Ω
RF In Damage Level	+35 dBm peak, ±50 VDC, Maximum Continuous Input (≥10 dB attenuation)
GPS	SMA(f)
External Power	5.5 mm barrel connector, 12.5 to 15 VDC, < 4.0 Amps
USB Interface (2)	Type A, Connect USB Flash Drive and Power Sensor
USB Interface	5-pin mini-B, Connect to PC for data transfer
Headset Jack	2.5 mm mini-phone plug
External Reference In	BNC, female, 50 Ω, Maximum Input +10 dBm 1 MHz, 5 MHz, 10 MHz, 13 MHz
External Trigger/Clock Recovery	BNC, female, 50 Ω, Maximum Input ±50 VDC

Display

Type	Resistive Touchscreen
Size	8.4" daylight viewable color LCD
Resolution	800 x 600

Battery

Type	Li-Ion
Battery Operation	3.0 hours, typical

Electromagnetic Compatibility

European Union	CE Mark, EMC Directive 89/336/EEC, 92/31/EEC, 93/68/EEC and Low Voltage Directive 73/23/EEC, 93/68/EEC
Australia and New Zealand	C-tick N274
Interference	EN 61326-1
Emissions	EN 55011
Immunity	EN 61000-4-2/-4-3/-4-4/-4-5/-4-6/-4-11

Safety

Safety Class	EN 61010-1 Class 1
Product Safety	IEC 60950-1 when used with Company supplied Power Supply

Environmental

Operating Temperature	-10 °C to 55 °C
Maximum Humidity	85%
Shock	MIL-PRF-28800F Class 2
Storage	-40 °C to 71 °C
Altitude	4600 meters, operating and non-operating

Size and Weight

Size	273 x 199 x 91 mm, (10.7 x 7.8 x 3.6 in)
Weight	3.45 kg, (7.6 lbs)

Spectrum Master™ MS2712E and MS2713E Specifications

Master Software Tools (for your PC)

Database Management

Full Trace Retrieval	Retrieve all traces from instrument into one PC directory
Trace Catalog	Index all traces into one catalog
Trace Rename Utility	Rename measurement traces
Group Edit	Titles, subtitles, plot scaling, markers and limit lines, simultaneously on similar files
DAT File Converter	Converts HHST files to MST file format and vice-versa

Data Analysis

Trace Math and Smoothing	Compare multiple traces
Data Converter	Convert from/to Return Loss, VSWR, Cable Loss, DTF and also into Smith Charts
Measurement Calculator	Translates into other units

Report Generation

Report Generator	Includes GPS, power level, and calibration status along with measurements
Edit Graph	Change scale, limit lines, and markers
Report Format	Create reports in HTML for PDF format
Export Measurements	Export measurements to *.s2p, *.jpg or *.csv format
Notes	Annotate measurements

Mapping (GPS Required)

Spectrum Analyzer Mode	MapInfo, MapPoint
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Folder Spectrogram (Spectrum Monitoring for Interference Analysis and Spectrum Clearing)

Folder Spectrogram – 2D View	Creates a composite file of multiple traces Peak Power, Total Power, Peak Frequency, Histogram, Average Power (Max/Min) File Filter (Violations over limit lines or deviations from averages) Playback
Video Folder Spectrogram – 2D View	Create AVI file to export for management review/reports
Folder Spectrogram – 3D View	Views (Set Threshold, Markers) - 3D (Rotate X, Y, Z Axis, Level Scale, Signal ID) - 2D View (Frequency or Time Domain, Signal ID) - Top Down Playback (Frequency and/or Time Domain)

List/Parameter Editors

Traces	Add, delete, and modify limit lines and markers
Antennas, Cables, Signal Standards	Modify instrument's Antenna, Cable, and Signal Standard List
Product Updates	Auto-checks Anritsu website for latest revision firmware
Firmware Upload	Upload new firmware into the instrument
Languages	Add up to two languages and modify non-English language menus
Display	Modify display settings

Script Master™








Channel Scanner Mode	Automate scan up to 1200 channels, repeat for sets of 20 channels, repeat all channels
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Connectivity


Connections	Connect to PC using USB
Download	Download measurements and live traces to PC for storage and analysis
Upload	Upload measurements from PC to instrument
Firmware Updates	Create USB Flash Drive for firmware update

Spectrum Master™ MS2712E and MS2713E Specifications

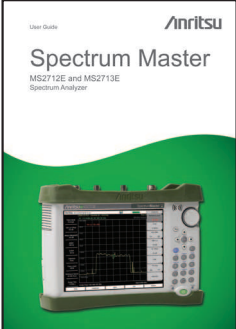
Ordering Information – Options

	MS2712E	MS2713E	Description
	100 kHz to 4 GHz	100 kHz to 6 GHz	Spectrum Analyzer
	Options	Options	
	MS2712E-0021	MS2713E-0021	2-Port Transmission Measurement
	MS2712E-0010	MS2713E-0010	Bias-Tee
	MS2712E-0031	MS2713E-0031	GPS Receiver (Requires Antenna P/N 2000-1528-R)
	MS2712E-0019	MS2713E-0019	High-Accuracy Power Meter
	MS2712E-0029	MS2713E-0029	Power Meter
	MS2712E-0025	MS2713E-0025	Interference Analyzer
	MS2712E-0027	MS2713E-0027	Channel Scanner
	MS2712E-0090	MS2713E-0090	Gated Sweep
	MS2712E-0028	MS2713E-0028	C/W Signal Generator (Requires Option 0021) (Requires CW Signal Generator Kit, P/N 69793)
	MS2712E-0098	MS2713E-0098	Standard Calibration (ANSI 2540-1-1994)
	MS2712E-0099	MS2713E-0099	Premium Calibration (ANSI 2540-1-1994 plus test data)



Power Sensors (For complete ordering information see the respective datasheets of each sensor)

	Model Number	Description
	PSN50	High Accuracy RF Power Sensor, 50 MHz to 6 GHz, +20 dBm
	MA24104A	Inline High Power Sensor, 600 MHz to 4 GHz, +51.76 dBm
	MA24106A	High Accuracy RF Power Sensor, 50 MHz to 6 GHz, +23 dBm
	MA24108A	Microwave USB Power Sensor, 10 MHz to 8 GHz, +20 dBm
	MA24118A	Microwave USB Power Sensor, 10 MHz to 18 GHz, +20 dBm

Manuals (soft copy included on MST CD and at www.us.anritsu.com)

	Part Number	Description
	10580-00251	Spectrum Master User Guide (Hard copy included) - Bias-Tee, GPS Receiver
	10580-00242	2-Port Transmission Measurement - Bias-Tee
	10580-00231	Spectrum Analyzer Measurement Guide - Interference Analyzer, Channel Scanner, Gated Sweep, CW Signal Generator
	10580-00240	Power Meter Measurement Guide - High Accuracy Power Meter
	10580-00256	Programming Manual

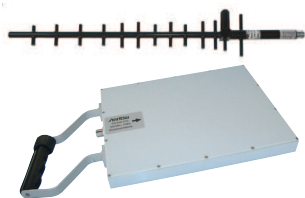
Standard Accessories (included with instrument)

	Part Number	Description
	10580-00251	Spectrum Master User Guide (includes Bias-Tee, GPS Receiver)
	3-68736	Soft Carrying Case
	2300-498	MST CD: Master Software Tools, User/Measurement Guides, Programming Manual, Troubleshooting Guides, Application Notes
	633-44	Rechargeable Li-Ion Battery
	40-168-R	AC-DC Adapter
	806-141-R	Automotive Cigarette Lighter 12 VDC Adapter
	3-2000-1498	USB A/5-pin mini-B Cable, 10 feet/305 cm
	11410-00511	Spectrum Master™ MS2712E, MS2713E Technical Data Sheet One Year Warranty (Including battery, firmware, and software) Certificate of Calibration and Conformance

Spectrum Master™ MS2712E and MS2713E Specifications

Optional Accessories

Directional Antennas



Part Number	Description
2000-1411-R	822-900 MHz, N(f), 10 dBd, Yagi
2000-1412-R	885-975 MHz, N(f), 10 dBd, Yagi
2000-1413-R	1710-1880 MHz, N(f), 10 dBd, Yagi
2000-1414-R	1850-1990 MHz, N(f), 9.3 dBd, Yagi
2000-1415-R	2400-2500 MHz, N(f), 10 dBd, Yagi
2000-1416-R	1920-2170 MHz, N(f), 10 dBd, Yagi
2000-1519	500 MHz to 3 GHz, log periodic

Portable Antennas



2000-1200	806-866 MHz, SMA (m), 50 Ω
2000-1473	870-960 MHz, SMA(m), 50 Ω
2000-1035	896-941 MHz, SMA (m), 50 Ω (1/4 wave)
2000-1030	1710 to 1880 MHz, SMA (m), 50 Ω (1/2 wave)
2000-1474	1750 to 1850 MHz with knuckle elbow (1/2 wave)
2000-1031	1850 to 1990 MHz, SMA (m), 50 Ω (1/2 wave)
2000-1475	1920 to 1980 MHz and 2110 to 2170 MHz, SMA (m), 50 Ω
2000-1032-R	2400 to 2500 MHz, SMA (m), 50 Ω (1/2 wave)
2000-1361	2400 to 2500, 5000 to 6000 MHz, SMA (m), 50 Ω
61532	Antenna Kit (Consists of: 2000-1030, 2000-1031, 2000-1032-R, 2000-1200, 2000-1035, 2000-1361, and carrying pouch)

Bandpass Filters



1030-114-R	806-869 MHz, N(m) - SMA(f), 50 Ω
1030-109-R	824 - 849 MHz, N(m) - SMA (f), 50 Ω
1030-110-R	880 - 915 MHz, N(m) - SMA (f), 50 Ω
1030-105-R	890-915 MHz Band, 0.41 dB loss, N(m) - SMA (f), 50 Ω
1030-111-R	1850 - 1910 MHz, N(m) - SMA (f), 50 Ω
1030-106-R	1710-1790 MHz Band, 0.34 dB loss, N(m) - SMA (f), 50 Ω
1030-107-R	1910-1990 MHz Band, 0.41 dB loss, N(m) - SMA (f), 50 Ω
1030-112-R	2400 - 2484 MHz, N(m) - SMA (f), 50 Ω
1030-155-R	2500-2700 MHz, N(m) - N(f), 50 Ω

Attenuators



3-1010-122	20 dB, 5 W, DC to 12.4 GHz, N(m)-N(f)
42N50-20	20 dB, 5 W, DC to 18 GHz, N(m) - N(f)
42N50A-30	30 dB, 5 W, DC to 18 GHz, N(m) - N(f)
3-1010-123	30 dB, 50 W, DC to 8.5 GHz, N(m)-N(f)
1010-127-R	30 dB, 150 W, DC to 3 GHz, N(m) - N(f)
3-1010-124	40 dB, 100 W, DC to 8.5 GHz, N(m)-N(f), Uni-directional
1010-121	40 dB, 100 W, DC to 18 GHz, N(m)-N(f), Uni-directional
1010-128-R	40 dB, 150 W, DC to 3 GHz, N(m) - N(f)

Spectrum Master™ MS2712E and MS2713E Specifications

Optional Accessories (continued)

Adapters



1091-26-R	SMA(m) - N(m), DC to 18 GHz, 50 Ω
1091-27-R	SMA(f) - N(m), DC to 18 GHz, 50 Ω
1091-80-R	SMA(m) - N(f), DC to 18 GHz, 50 Ω
1091-81-R	SMA(f) - N(f), DC to 18 GHz, 50 Ω
1091-172	BNC(f) - N(m), DC to 1.3 GHz, 50 Ω
510-102-R	N(m) - N(m), DC to 11 GHz, 50 Ω, 90 degrees right angle

Precision Adapters



34NN50A	Precision Adapter, N(m) - N(m), DC to 18 GHz, 50 Ω
34NFN50	Precision Adapter, N(f) - N(f), DC to 18 GHz, 50 Ω

Backpack and Transit Case



67135	Anritsu Backpack (For Handheld Instrument and PC)
760-243-R	Large Transit Case with Wheels and Handle

Miscellaneous Accessories



2000-1528-R	GPS Antenna, SMA(m)
69793	CW Signal Generator Kit
2000-1520-R	USB Flash Drive
2000-1374	External Charger for Li-Ion Batteries



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