SITE MASTER
S100C/S200C/S300D/S800C Series

CE GPIB

2 MHz to 20 GHz

For Analyzing Cable and Antenna Problems


NEW
S331D


NEW
S332D


S251C


S113C

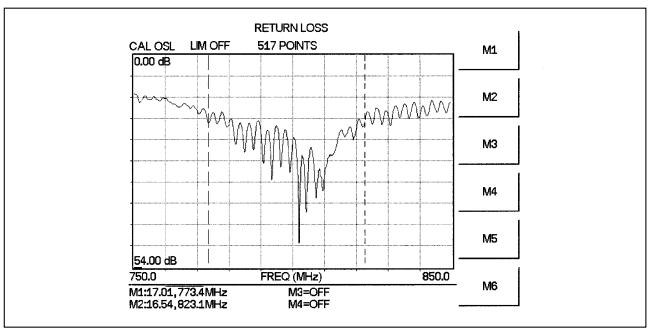

S114C


S820C

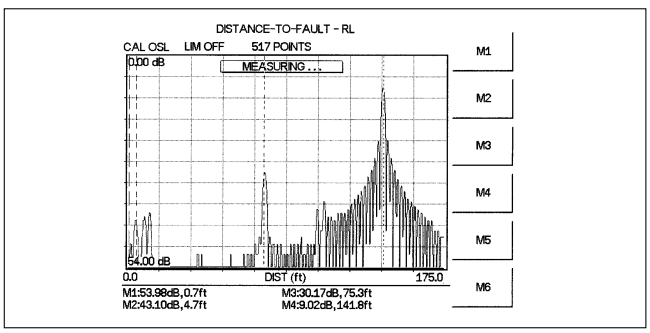
Site Master is the instrument of choice for transmission line/antenna installation and maintenance. It is the best way to reduce maintenance expenses and improve quality. It replaces stacks of heavy, expensive, and complex test equipment. Site Master's frequency domain reflectometry technique allows it to locate faults before they become catastrophic faults, thereby creating huge cost savings.
The Site Master is a precision, hand-held return loss/SWR and fault location measurement instrument. The Site Master series offers wide frequency coverage, from 2 MHz to 20 GHz. Built-in fault location, RF power monitor, bias tee, and spectrum analysis capabilities are available. Light weight, rugged design, and wide temperature range make them ideal for field applications. Site Master's proprietary design provides superior immunity to on-channel RF interference, which is important for live site testing.
Handheld Software Tools is a Windows® compatible software program provided with every Site Master unit. This software program provides many useful features, including a database for Site Master measurements, Smith Chart display of S11, zoom capability, a "drag-n-drop" overlay for measurement comparison, the capability to download data to a PC, the capability to upload data such as custom cable list or traces to selected Site Master models, and distance-to-fault calculation from return loss or SWR plots. Advanced printing capabilities are provided by Handheld Software Tools including user definable plot scaling and a multiple plots per page option.
Site Master is the first test tool to provide the required accuracy, interference immunity, and repeatability for transmission line/antenna commissioning, and maintenance of today's wireless systems infrastructures.

Features

- Accurate return loss/SWR and fault location measurements
- Accurately tests RF transmission lines and antennas
- Superior immunity to on-channel interference for testing at co-located antenna sites
- Multilingual user interface: English, German, Spanish, French, Chinese, Japanese
- Optional color display (S331D and S332D only)
- Insertion Loss/Gain (S251C only)
- Optional built-in bias tee (S251C only)
- Spectrum analysis (S114C and S332D only)
- Optional RF power monitor and optional RF power meter
- Synthesizer accurate to 75 ppm
- Internal memory saves up to 200 traces
- Instrument configuration up to 20 configurations
- Alphanumeric trace naming
- Time, Date stamp
- Field replaceable battery
- Segmented limit lines
- Six markers
- Graticule lines
- Trace overlay
- Direct printing via RS-232 serial port
- Remote operation via RS-232 serial port



Return loss



Distance-to-fault

Applications

Cellular, ISM, PCS/PCN, paging service, safety service, avionics, two-way radio, military, and microwave point-to-point radio.
Site Master allows implementation of preventative maintenance procedures. Unlike TDRs and spectrum analyzers/tracking generators,

For product ordering information, see pages 3 – 6

Site Master can spot RF degradation before failures occur. Problems can be fixed before expensive cables or waveguides are ruined. Site Master is designed for field requirements. Its rugged construction survives rough field treatment. Battery power, light weight, small size, wide temperature range, and simple user interface are exactly what field technicians want today. Technicians can test antennas from ground level because Site Master's distance-to-fault measurement compensates for cable insertion loss. Furthermore, spectrum analysis, available in certain Site Master models, allows technicians and field engineers to quickly identify and solve common RF system problems, such as coverage, interference, and other path related signal problems. Site Master offers a new and better method to install and maintain transmission lines and antennas.

Specifications*1

Model	S251C	S113C/S331D		S114C/S332D	
Frequency range	625 to 2500 MHz	2 to 1600 MHz (S113C) 25 to 4000 MHz (S331D)		2 to 1600 MHz (114C) 25 to 4000 MHz (S332D)	
Frequency resolution	10 kHz	10 kHz (S113C) 100 KHz (S331D)		10 kHz (S114C) 100 KHz (S332D)	
Frequency accuracy (CW mode)	± 75 ppm				
Display data points	Selectable: 130, 259, 517				
Immunity to interfering RF signals*2	S251C	S113C	S331D	S114C	S332D
On-frequency*3	+10 dBm (RF out), +30 dBc transmission	+10 dBm	–5 dBm	+10 dBm	–5 dBm
On-channel*4	+17 dBm	+17 dBm	+17 dBm	+17 dBm	+17 dBm
Return loss	Range: 0 to 54 dB; Resolution: 0.01 dB (S331D and S332D have return loss range of 0 to 60 dB)				
SWR	Range: 1 to 65; Resolution:0.01				
Cable loss	Range: 0 to 30 dB; Resolution: 0.01 dB (S331D and S332D) Range: 0 to 54 dB; Resolution: 0.01 dB (S251C, S113C and S114C)				
Distance-to-fault	Vertical range Return loss: 0 to 54 dB; 0 to 60 dB (S331D and S332D) SWR: 1 to 65 Horizontal range (meter): 0 to (# of data points –1) x resolution, where data points = 130, 259 or 517 Horizontal resolution, rectangular windowing resolution (meter): (1.5 x 10^8) (υp)/ Δ frequency*5				
RF power monitor (Option 5 - S113C, S114C & S251C only)	Display range: –80 to +80 dBm, 10 pW to 100 kW Detector range: –45 to +20 dBm, 30 µW to 100 mW Offset range: 0 to +60 dB Resolution: 0.1 dB or 0.1 W				
RF power meter (S331D & S332D only)	N/A	Frequency range: 10 MHz to 3 GHz Display range: –80 to +80 dBm, 10 pW to 100 kW Offset range: 0 to +60 dB Accuracy: ±1 dB max (± 0.5 dB typical) for input signal levels ≥–60 dBm, 10 MHz to 2 GHz excludes input VSWR			
Bias Tee (Option 10B) S251C only	Voltage: Switchable 15V (high voltage) OR 12V (low voltage) Current: Switchable 1A surge/650 mA steady state (high current) OR 460 mA surge/244 mA steady state (low current)	N/A		N/A	
Insertion Loss/Gain S251C only	Display range: –120 to +100 dB Resolution: 0.1 dB Measurement Range: –90 to +50 dB	N/A		N/A	
Spectrum analysis					
Frequency range	N/A	N/A		100 kHz to 1600 MHz (S114C) 100 kHz to 3000 MHz (S332D)	
Accuracy	N/A	N/A		± 2 ppm	
Aging	N/A	N/A		± 1 ppm/yr	
Frequency span	N/A	N/A		1 kHz to 1.6 GHz in 1, 2, 5 step selections in auto mode, plus zero span (S114C) 10 Hz to 2.99 GHz in 1, 2, 5 step selections in auto mode, plus zero span (S332D)	
Resolution bandwidth	N/A	N/A		10 kHz, 30 kHz, 100 kHz, 1 MHz (S114C) 100 Hz to 1 MHz in 1-3 sequence ±5% Accuracy (S332D)	
Video Bandwidth	N/A	N/A		100 Hz to 300 kHz in 1-3 sequence (S114C) 3 Hz to 1 MHz in 1-3 sequence ± 5% Accuracy (S332D)	
SSB Phase Noise @ (1 GHz) 30 kHz offset	N/A	N/A		≤ –75 dBc/Hz	
Spurious responses (Input related)	N/A	N/A		≤ –45 dBc	
Spurious responses (residual)	N/A	N/A		≤ –95 dBm	

Continued on next page

Model	S251C	S113C/S331D	S114C/S332D
Dynamic range	N/A	N/A	≥ 65 dB
Average noise level	N/A	N/A	100KHz to 300KHz ≤ –80 dBm 300KHz to 500KHz ≤ –92 dBm 500KHz to 3GHz ≤ –95 dBm (S114C) ≤–135 dBm typical, ≥1 MHz (preamp on) ≤–115 dBm typical, ≥500 kHz to <1 MHz ≤–110 dBm typical, <500 kHz for input terminated, 0 dB attenuation, RMS detection, 100 Hz RBW
Measurement range	N/A	N/A	+20 dBm to –95 dBm (S114C) +20 dBm to –135 dBm (S332D)
Display range	N/A	N/A	2 to 15 dB/div (S114C) 1 to 15 dB/div (S332D) in 1 dB steps - 10 divisions display
Total level accuracy	N/A	N/A	± 2 dB ≥ 500 kHz, typical ± 3 dB < 500 kHz, typical (S114C) ± 1 dB ≥ 10 MHz to 2 GHz ± 3dB <10 MHz (excludes input VSWR mismatch) (S332D)
RF input VSWR	N/A	N/A	2.0:1 (S114C) RF Input VSWR: (20 dB atten.) 1.5:1 typical, (10 MHz to 2.4 GHz) (S332D)
Trace memory	Up to 200		
Instrument configuration*6	10	10 (S113C); up to 20 (S331D)	10 (S114C); up to 20 (S331D)
Markers	6 for all models		
Test port connector	Precision N female		
Maximum input level without damage			
RF OUT test port	+23 dBm, 50 Ω, +50 Vdc	+23 dBm, 50 Ω, +50 Vdc	+23 dBm, 50 Ω, +50 Vdc
RF IN test port (S251 only)	+27 dBm, 50 Ω, +50 Vdc	N/A	N/A
RF power detector (S113C, S114C & S251C only)	+20 dBm, 50 Ω, +50 Vdc	+20 dBm, 50 Ω, +50 Vdc	+20 dBm, 50 Ω, +50 Vdc
RF power meter (S331D & S332D only)	N/A	+43 dBm, 50 Ω, +50 Vd	+43 dBm , 50 Ω, +50 Vdc
RF IN Spectrum analyzer port (S114C only)	N/A	N/A	+27 dBm, 50 Ω,± 50 Vdc
RF IN Spectrum analyzer port (S332D only)	N/A	N/A	+43 dBm, 50 Ω, +50 Vdc
Temperature	Operating: –10°C to +50°C humidity 85% or less Non-operating: –20°C to +75°C (recommend battery stored separately between 0°C and +40°C for any prolonged non-operating storage period)		
Weight	2.14 kg (4.76 lbs.) nominal; <2.28 kg (< 5 lbs.) including battery (S332D)		
Size	25.4 cm x 17.8 cm x 6.1 cm (10 in x 7 in x 2.4 in)		
General	Electromagnetic compatibility: Meets European community requirements for CE marking. RS232: 9 pin D-sub, three wire serial Safety: Conforms to EN 61010-1 for Class 1 portable equipment.		

∗1: All specifications apply when calibrated at ambient temperature after a five minute warm up.
∗2: In most applications, immunity is typically better because interfering signals are modulated and varying in frequency rather than being CW. Measurements were made in CW mode by injecting a signal into the Site Master through a coupler.
∗3: On-Frequency interference immunity is specified to within +10 kHz of the carrier frequency.
∗4: On-Channel interference immunity is specified to within 1 MHz of the carrier frequency.
∗5: Where υ_p is the cable's relative propagation velocity. Δ frequency is the stop frequency minus the start frequency (in Hz). Wide frequency sweeps improve resolution but reduce maximum display range.
∗6: Calibration stored with instrument configuration.

For product ordering information, see pages 3 – 6

InstaCal® Calibration Module*

The InstaCal calibration module is available for all one-port Site Master models (S113C, S114C, S331D and S332D). With InstaCal, users can cut the time required to calibrate the Site Master by as much as 50%. Moreover, InstaCal reduces the potential for calibration error. With discrete calibration components users are required to connect, disconnect, and reconnect the various calibration components during the calibration process, which greatly increases the potential for calibration/measurement error. With InstaCal, users are only required to connect the InstaCal calibration module once – the calibration process sequences automatically, ensuring an accurate calibration of the Site Master. The benefit is calibrated measurements in much less time.

*The InstaCal® Calibration Module exhibits slightly degraded directivity performance compared to precision loads. Users having applications that require DTF-RL measurements > | 38 dB | may want to consider using precision load calibration components in place of the InstaCal calibration module for greater measurement accuracy.

InstaCal® Module ICN50

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Specifications*1

Model	S810C/S820C
Frequency range	3.3 to 10.5 GHz (S810C) 3.3 to 20 GHz (S820C)
Frequency accuracy (CW mode)	≤ ± 50 ppm
Frequency resolution	100 kHz
Display data points	Selectable: 130, 259, 517
RF immunity*2	–10 dBm
Return loss	Range: 0 to 54 dB, Resolution: 0.01 dB
SWR	Range: 1 to 65, Resolution: 0.01
Cable/Waveguide Loss	Range: 0 to 54 dB, Resolution: 0.01 dB
Distance-to-fault	Vertical range Return loss: 0 to 54 dB SWR: 1 to 65 Horizontal range: (# of data points –1) x resolution, where data points = 130, 259 or 517 Horizontal resolution, rectangular windowing resolution (meter): Coax: $(1.5 \times 10^8)(\upsilon p)/\Delta$ frequency*3 Waveguide: $(1.5 \times 10^8)(\sqrt{(1-(F_c/F_1)^2)}/\Delta$ frequency)*4
RF power monitor (Option 5)	Display range: –80 to +80 dBm, 10 pW to 100 kW Detector range: –45 to +20 dBm, 30 µW to 100 mW Offset range: 0 to +60 dB Resolution: 0.1 dB, 0.1 x W
Trace memory	Up to 200 traces
Instrument configuration with calibration	10 memory locations
Markers	6 for all models
Test port connector*5	K female or N female (option 11NF)
Maximum input without damage	N(f) test port: +22 dBm RF power detector: +20 dBm, 50 Ω
Temperature	–10°C to 50°C humidity 85% or less Non-operating –20°C to 75°C (recommended battery stored separately between 0°C and +40°C for any prolonged non-operating storage period)
Weight	2.14 kg (4.76 lbs.) nominal
Size	25.4 cm x 17.8 cm x 6.1 cm (10 in x 7 in x 2.4 in)
General	Electromagnetic compatibility: Meets European community requirements for CE marking. RS232: 9-pin D-sub, three wire serial Safety: Conforms to EN 61010-1 for Class 1 portable equipment.

*1: All specifications apply when calibrated at ambient temperature after a five minute warm up.
*2: In most applications, immunity is typically better because interfering signals are modulated and varying in frequency rather than being CW. Measurements were made in CW mode by injecting a signal into the Site Master through a coupler.
*3: Where υp is the cable's relative propagation velocity. Δ frequency is the stop frequency minus the start frequency (in Hz). Wide frequency sweeps improve resolution but reduce maximum display range.
*4: Where F_c is the waveguide's cutoff frequency (in Hz) and F_1 is the start frequency (in Hz). Δ frequency is the stop frequency minus the start frequency (in Hz). Wide frequency sweeps improve resolution but reduce maximum display range.
*5: Must specify option 11NF at the time of purchase to have N female test port connector.

Ordering Information

Please specify model/order number, name, and quantity when ordering.

Model/Order No.	Name
	Main frame
Model S113C	Site Master (2 to 1600 MHz), Built in DTF
Model S114C	Site Master (2 to 1600 MHz), Built in DTF, Spectrum Analysis (100 kHz to 1.6 GHz)
Model S251C	Site Master (625 to 2500 MHz), Built in DTF, 2-port
Model S331D	Site Master (25 to 4000 MHz), Built in DTF
Model S332D	Site Master (25 to 4000 MHz), Built in DTF, Spectrum Analysis and Power Meter (100 kHz to 3.0 GHz)
Model S810C	Site Master (3.3 to 10.5 GHz), Built in DTF
Model S820C	Site Master (3.3 to 20 GHz), Built in DTF
	Standard accessories
	User's Guide
	Soft Carrying Case
	AC-DC Adapter
	Automotive Cigarette Lighter/12 Volt DC Adapter
	One Year Warranty
	CD ROM containing Fault Location (DTF), Smith Chart, and Software Management Tools
	Serial Interface Cable
	Rechargeable battery, NiMH
	Precision ruggedized K(m) to N(f) adapter when ordered with out 11NF option (S810C and S820C only)
	Option
Option 3	Color Display – S331D & S332D
Option 5	RF Power Monitor (RF detector not included)
Option 10B	Built-in Bias Tee – S251C
Option 11NF	N(f) test port connector - S810C & S820C
Option 29	RF Power Meter (requires no detector) – S331D
Option 50	T1/E1 Analyzer – S331D
	Optional accessories
42N50A-30	Attenuator, 30 dB, DC to 18 GHz, 50 W
42N50-20	Attenuator, 20 dB, DC to 18 GHz, 5 W
ICN50	InstaCAL (S113C, S114C, S331D, S332D)
5400-71N50	RF Detector, N(m), 50 Ω, 1 to 3000 MHz
560-7N50B	RF Detector, N(m), 50 Ω, 10 MHz to 20 GHz
560-7K50	RF Detector, K(m), 50 Ω, 10 MHz to 40 GHz
560-7VA50	RF Detector, V(m), 50 Ω, 10 MHz to 50 GHz
IN50C	5W Limiter, N(m)-N(f), 18 GHz
22K50	Precision K(m) Short/Open, 40 GHz
22KF50	Precision K(f) Short/Open, 40 GHz
22N50	Precision N(m) Short/Open, 18 GHz
22NF50	Precision N(f) Short/Open, 18 GHz
SM/PL	Precision N(m) Load, 42 dB, 4.0 GHz
SM/PLNF	Precision N(f) Load, 42 dB, 4.0 GHz
OSLN50LF	Precision N(m) Open/short/Load, 42 dB, 4.0 GHz
OSLNF50LF	Precision N(f) Open/short/Load, 42 dB, 4.0 GHz
28K50	Precision N(m) Load, 40 GHz
28KF50	Precision N(f) Load, 40 GHz
28N50-2	Precision N(m) Load, 40 dB, 18 GHz
28NF50-2	Precision N(f) Load, 40 dB, 18 GHz
2000-767	Precision Open/Short/Load, 7-16 (m), 4 GHz
2000-768	Precision Open/Short/Load, 7-16 (f), 4 GHz
15ND50-1.5C	Test port cable armored, 1.5 meter, N(m) to 7/16 DIN(m), 6 GHz
15NDF50-1.5C	Test Port Ext. Cable, 1.5 meters, N(m) to 7/16 DIN(f), 6 GHz
15NN50-1.5C	Test Port Ext. Cable, 1.5 meters, N(m) to N(m), 6.0 GHz
15NN50-3.0C	Test Port Ext. Cable, 3.0 meters, N(m) to N(m), 6.0 GHz
15NN50-5.0C	Test Port Ext. Cable, 5.0 meters, N(m) to N(m), 6.0 GHz
15NNF50-1.5B	Test port cable armored, 1.5 meter, N(m) to N(f), 18 GHz
15NNF50-1.5C	Test port cable armored, 1.5 meter, N(m) to N(f), 6.0 GHz
15NNF50-3.0C	Test port cable armored, 3.0 meter, N(m) to N(f), 6.0 GHz
15NNF50-5.0C	Test port cable armored, 5.0 meter, N(m) to N(f), 6.0 GHz
15KKF50-1.5A	Test port cable armored, 1.5 meter, K(m) to K(f), 26.5 GHz
15NDF50-1.5C	Test port cable armored, 1.5 meter, N(m) to 7/16 DIN(f), 6 GHz

Model/Order No.	Name
800-109	Detector extender cable, 7.6 m (25 ft.)
800-110	Detector extender cable, 15.2 m (50 ft.)
800-111	Detector extender cable, 30.5 m (100 ft.)
800-112	Detector extender cable, 61 m (200 ft.)
34NN50A	Precision N(m) to N(m) Adapter, 18 GHz
34NFNF50	Precision N(f) to N(f) Adapter, 18 GHz
34RKNF50	Precision Ruggedized K(m) to N(f) Adapter, 20 GHz
K220B	Precision K(m)-K(m) Adapter, 40 GHz
K222B	Precision K(f)-K(f) Adapter, 40 GHz
1091-26	Adapter N(m) to SMA(m), 18 GHz
1091-27	Adapter N(m) to SMA(f), 18 GHz
1091-80	Adapter, N(f) to SMA(m), 18 GHz
1091-81	Adapter, N(f) to SMA(f), 18 GHz
1091-172	Adapter, DC to 1.3 GHz, 50 Ω, N(m) to BNC(f)
510-90	Adapter 7-16(f) to N(m), 7.5 GHz
510-91	Adapter 7-16(f) to N(f), 7.5 GHz
510-92	Adapter 7-16(m) to N(m), 7.5 GHz
510-93	Adapter 7-16(m) to N(f), 7.5 GHz
510-96	Adapter 7/16 (m) to 7/16 (m), 7.5 GHz
510-97	Adapter 7/16 (f) to 7/16 (f), 7.5 GHz
48258	Spare Soft Carrying Case for
40-115	Spare AC/DC Adapter
806-62	Spare Automotive Cigarette Lighter/12 Volts DC adapter
800-441	Spare Serial Interface Cable
760-215A	Transit Case for Site Master
633-27	Rechargeable battery, NiMH for "C" version Site Master
2300-347	Spare Handheld Software Tools
10580-00076	Spare Site Master S810C, S820C User's Guide
10580-00060	Spare Site Master User's Guide (S113C, S114C, S331C & S332C)
10580-00065	Spare Site Master User's Guide (S251C)
10580-00077	Site Master Programming Manual (for S810C, S820C)
10580-00061	Site Master Programming Manual (for S113C, S114C, S331C, S332C)
10580-00066	Site Master Programming Manual (for S251C)
10580-00078	Site Master Maintenance Manual (for S810C & S820C)
10580-00079	Spare S331D and S332D user guide
10580-00062	Site Master Maintenance Manual (for S113C, & S331C)
10580-00067	Site Master Maintenance Manual (for S251C)
10580-00068	Site Master Maintenance Manual (for S114C & S332C)
10580-00100	S331D & S332D Programming Manual
10580-00101	S331D Maintenance Manual
10580-00102	S332D Maintenance Manual
2000-1214	HP DeskJet printer includes: serial-to-parallel interface cable, black print cartridge, and US power cable
2000-753	Spare serial-to-parallel converter cable
2000-663	Power cable (Europe) for DeskJet printer
2000-664	Power cable (Australia) for DeskJet printer
2000-665	Power cable (UK) for DeskJet printer
2000-666	Power cable (Japan) for DeskJet printer
2000-667	Power cable (So. Africa) for DeskJet printer
2000-1030	Portable antenna, SMA (m) 1.71 to 1.88 GHz
2000-1031	Portable antenna, SMA (m) 1.85 to 1.99 GHz
2000-1032	Portable antenna, SMA (m) 2.4 to 2.5 GHz
2000-1200	Portable antenna, SMA (m) 806 to 869 MHz
2000-1035	Portable antenna, SMA (m) 902 to 960 MHz
2000-1216	Black printer cartridge for DeskJet printer
2000-1217	Rechargeable battery for DeskJet printer
551-1691	Earthmate USB to serial adapter cable

For product ordering information, see pages 3 – 6

Universal Waveguide Component Accessories

	Part number*2	Freq. range	Waveguide type	Compatible flanges
Precision waveguide calibration components*1	XXUM70	5.85 to 8.20 GHz	WR137, WG14	CAR70, PAR70, UAR 70, PDR70
	XXUM84	7.05 to 10.00 GHz	WR112, WG15	CBR84, UBR84, PBR84, PDR84
	XXUM100	8.20 to 12.40 GHz	WR90, WG16	CBR100, UBR100, PBR100, PDR100
	XXUM120	10.00 to 15.00 GHz	WR75, WG17	CBR120, UBR120, PBR120, PDR120
	XXUA187	3.95 to 5.85 GHz	WR187, WG12	CPR187F, CPR187G, UG-1352/U, UG-1353/U, UG-1728/U, UG-1729/U, UG-148/U, UG-149A/U
	XXUA137	5.85 to 8.20 GHz	WR137, WG14	CPR137F, CPR137G, UG-1356/U, UG-1357/U, UG-1732/U, UG-1733/U, UG-343B/U, UG-344/U, UG-440B/U, UG-441/U
	XXUA112	7.05 to 10.00 GHz	WR112, WG15	CPR112F, CPR112G, UG-1358/U, UG-1359/U, UG-1734/U, UG-1735/U, UG-52B/U, UG-51/U, UG-137B/U, UG-138/U
	XXUA90	8.20 to 12.40 GHz	WR90, WG16	CPR90F, CPR90G, UG-1360/U, UG-1361/U, UG-1736/U, UG-1737/U, UG-40B/U, UG-39/U, UG-135/U, UG-136B/U
	XXUA62	12.40 to 18.00 GHz	WR62, WG18	UG-541A/U, UG-419/U, UG-1665/U, UG1666/U
	XXUA42	17.00 to 26.50 GHz	WR42, WG20	UG-596A/U, UG-595/U, UG-597/U, UG-598A/U
Precision waveguide-to-coaxial adapters*1	35UM70N	5.85 to 8.20 GHz	WR137, WG14	CAR70, PAR70, UAR 70, PDR70
	35UM84N	7.05 to 10.00 GHz	WR112, WG15	CBR84, UBR84, PBR84, PDR84
	35UM100N	8.20 to 12.40 GHz	WR90, WG16	CBR100, UBR100, PBR100, PDR100
	35UM120N	10.00 to 15.00 GHz	WR75, WG17	CBR120, UBR120, PBR120, PDR120
	35UA187N	3.95 to 5.85 GHz	WR187, WG12	CPR187F, CPR187G, UG-1352/U, UG-1353/U, UG-1728/U, UG-1729/U, UG-148/U, UG-149A/U
	35UA137N	5.85 to 8.20 GHz	WR137, WG14	CPR137F, CPR137G, UG-1356/U, UG-1357/U, UG-1732/U, UG-1733/U, UG-343B/U, UG-344/U, UG-440B/U, UG-441/U
	35UA112N	7.05 to 10.00 GHz	WR112, WG15	CPR112F, CPR112G, UG-1358/U, UG-1359/U, UG-1734/U, UG-1735/U, UG-52B/U, UG-51/U, UG-137B/U, UG-138/U
	35UA90N	8.20 to 12.40 GHz	WR90, WG16	CPR90F, CPR90G, UG-1360/U, UG-1361/U, UG-1736/U, UG-1737/U, UG-40B/U, UG-39/U, UG-135/U, UG-136B/U
	35UA62N	12.40 to 18.00 GHz	WR62, WG18	UG-541A/U, UG-419/U, UG-1665/U, UG1666/U
	35UA42K	17.00 to 26.50 GHz	WR42, WG20	UG-596A/U, UG-595/U, UG-597/U, UG-598A/U

*1: Call or contact Anritsu sales rep for other frequencies waveguide calibration components and waveguide-to-coaxial adapters.
*2: Part number Ordering information
Prefix (XX) 23 for 1/8 λ offset short
24 for 3/8 λ offset short
26 for Precision waveguide load
35 waveguide to coaxial adapter

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