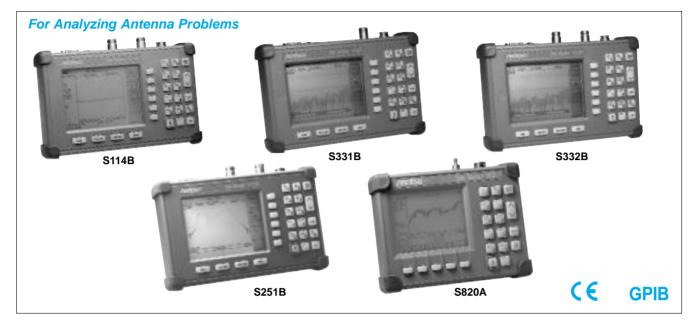
5 MHz to 20 GHz



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 find problems 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 5 MHz to 20 GHz. Built-in fault location, wattmeter, 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 immunity to RF interference, which is important for live site testing.

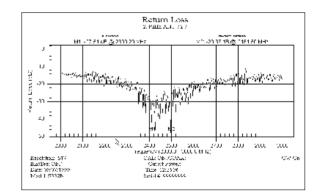
Site Master Software Tools is a Windows[®] compatible software program provided with every Site Master unit. This software program provides many useful features, including a database for Site Master measurements, Smith Chart display of S11, zoom capability, a "dragn-drop" overlay for measurement comparison, the capability to download data to a PC, the capability to upload data such as custom cable list or traces to selected Site Master model, and distance-tofault calculation from return loss or SWR plots. Advanced printing capabilities are provided by Site Master 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.

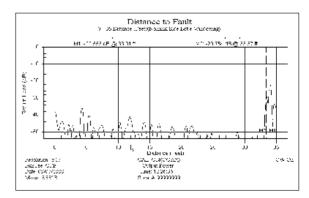
Features

- Accurate return loss/SWR measurements
- Built-in distance-to-fault
- Accurately tests RF transmission lines and antennas
- Immunity to live site RF interference
- Distance-to-fault windowing functions
- Insertion Loss/Gain (S251B only)
- Spectrum analysis (S114B and S332B only)
- Optional wattmeter
- Optional built-in bias tee (S251B only)
- Synthesizer accurate to 75 ppm
- Internal memory saves up to 200 traces
- Instrument configuration up to 10 configurations

- Alphanumeric trace naming ("B" version only)
- Time, Date stamp ("B" version only)
- Field replaceable battery ("B" version only)
- Segmented limit lines (S251B only)
- Trace overlay (S251B only)
- Direct printing via RS-232 serial port
- Remote operation via RS-232 serial port



Return loss



Distance-to-fault

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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, 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	S331A/S400A	S810A/S818A/S820A			
Frequency range	25 to 3300 MHz (S331A) 25 to 4000 MHz (S400A)	3.3 to 10.5 GHz (S810A) 3.3 to 18.0 GHz (S818A) 3.3 to 20.0 GHz (S820A)			
Frequency accuracy (CW mode)	75 ppm				
Frequency resolution	100 kHz 1 MHz				
Immunity to interfering RF signals up to*2	-15 dBm -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 20 dB, Resolution: 0.01 dB				
$\begin{array}{llllllllllllllllllllllllllllllllllll$					
Wattmeter (RF power monitor, Option 5)	tion 5) Display range: -80 to +80 dBm, 10 pW to 100 kW Detector range: -50 to +20 dBm, 10 nW to 100 mW Offset range: 0 to +60 dB Resolution: 0.1 dB, 0.1 x W				
Trace memory	ry 40 (S331A and S400A) 70 (S800A series)				
Instrument configuration	9 (S331A and S400A) 6 (S800A series) ^{*5}				
Calibration memory	alibration memory 2 (S331A and S400A) 6 (S800A series)* ⁵				
Test port connector	Precision N female				
Maximum input without damage	N(f) test port: +22 dBm RF power detector: +20 dBm, 50 Ω				
Temperature	Operating: 0°C to 50°C Storage: -20°C to 75°C				
Weight	1.14 kg (2.5 lbs.) nom (S331A and S400A series) 1.36 kg (3.0 lbs.) nom (S800A series)				
Size	203.2 mm x 177.8 mm x 57.2 mm (8 in x 7 in x 2.25 in)				
General	Electromagnetic compatibility: Meets European community requirements for CE marking. RS232: 9-pin D-sub, three wire serial				

*1: All specifications apply when calibrated at ambient temperature after a five minute warm up.

*2: In most applications, immunity is typically better because interferring 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 Up is the cable's relative propagation velocity. ∆ 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 F₁ is the start frequency (in Hz). ∆ frequency is the stop frequency minus the start frequency (in Hz). Wide frequency sweeps improve resolution but reduce maximum display range.

*5: S800A series calibration stored with instrument configuration.

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Specifications*1

			1			
Model	S251B	S113B/S331B 5 to 1200 MHz (S113B)	S114B/S332B			
Frequency range	625 to 2500 MHz	5 to 1200 MHz (114B) 25 to 3300 MHz (S332B)				
Frequency accuracy (CW mode)	75 ppm					
Frequency resolution	10 kHz					
Display data points	Selectable: 130, 259, 517					
Immunity to interfering RF signals up to ^{*2}	+10 dBm (Reflection) RF OUT +10 dBm (S113B) +10 dBm (S114B) +30 dBc (Transmission)RF IN -5 dBm (S331B) -5 dBm (S332B)					
Return loss	Range: 0 to 54 dB; Resolution: 0.01 d	iB				
SWR	Range: 1 to 65; Resolution:0.01					
Cable loss	Range: 0 to 20 dB; Resolution : 0.01	dB				
Insertion Loss/Gain S251B only	Display range: -120 to +100 dB Resolution: 0.1 dB	N/A	N/A			
Distance-to-fault		Return loss: 0 to 54 dB				
Wattmeter (RF power monitor, Option 5)	Display range: -80 to +80 dBm, 10 pV Detector range: -50 to +20 dBm, 10 n Offset range: 0 to +60 dB Resolution: 0.1 dB					
Bias Tee (Option 10A) S251B only	+15 VDC, Surge: 275 mA maximum, 25 ms; Steady State: 240 mA maximum	N/A	N/A			
Spectrum analysis						
Frequency range	N/A	N/A	100 kHz to 1200 MHz (S114B) 100 kHz to 3000 MHz (S332B)			
Accuracy	N/A	N/A	± 2 ppm			
Aging	N/A	N/A	± 1 ppm/yr			
Frequency span	N/A	N/A	0 Hz (zero span), 100 kHz to full span			
Resolution bandwidth	N/A	N/A	10 kHz, 30 kHz, 100 kHz, 1 MHz			
Video Bandwidth	N/A	N/A	3 kHz, 10 kHz, 30 kHz, 300 kHz			
Display datapoint	N/A	N/A	400			
SSB Phase Noise @ (1 GHz) 30 kHz offset	N/A	N/A	≤ −74 dBc/Hz			
Spurious responses (Input related)	N/A	N/A	< -70 dBm			
Spurious responses (residual)	N/A	N/A	≤ –45 dBc			
Dynamic range	N/A	N/A	≥ 60 dB			
Average noise level	N/A	N/A	≤ –90 dBm (400 KHz span)			
Measurement range	N/A	N/A	+20 dBm to -90 dBm			
Display range	N/A	N/A N/A				
Total level accuracy	N/A	N/A	± 2 dB			
RF input VSWR	N/A	N/A	2.0:1			
Trace memory	Up to 200		•			
Instrument configuration ^{*4}	10					
Test port connector	Precision N female					
Maximum input	RF OUT test port: +22 dBm RF IN test port: +10 dBm RF power detector: +20 dBm, 50 Ω RF IN Spectrum Analyzer port: +20 dBm safe input, +27 dBm damage level					
Temperature	Operating: 0°C to +50°C Storage: -20°C to +75°C					
Weight	1.82 kg (4.0 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					

*1: All specifications apply when calibrated at ambient temperature after a five minutes warm up.

*2: In most applications, immunity is typically better because interferring 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 Op is the cable's relative propagation velocity. ∆ frequency is the stop frequency minus the start frequency (in Hz). Wide frequency sweeps improve resolution but reduce maximum display range.

*4: Calibration stored with instrument configuration.

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

Model/Order No.	Name
	Main frame
Model S331A	Site Master (25 to 3300 MHz), Built in DTF
Model S400A	Site Master (25 to 4000 MHz), Built in DTF
Model S810A	Site Master (3.3 to 10.5 GHz), Built in DTF
Model S818A	Site Master (3.3 to 18.0 GHz), Built in DTF
Model S820A	Site Master (3.3 to 20.0 GHz), Built in DTF
Model S113B	Site Master (5 to 1200 MHz), Built in DTF
Model S114B	Site Master (5 to 1200 MHz), Built in DTF,
Model S251B	Spectrum Analysis Site Master (625 to 2500 MHz), Built in DTF, 2-port
Model S331B	Site Master (25 to 3300 MHz), Built in DTF
Model S332B	Site Master (25 to 3300 MHz), Built in DTF,
	Spectrum Analysis
	Oten dend en en en eine
	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 ("B" version only)
	Precision ruggedized K(m) to N(f) adapter (S820A only)
	Option
Option 5	RF Watt Meter Power Monitor (RF detector not included)
Option 10A	Built-in Bias Tee (240 mA) - S251B only
5400 74 150	Optional accessories
5400-71N50 560-7N50B	RF Detector, N(m), 50 Ohm, 1 to 3000 MHz RF Detector, N(m), 50 Ohm, 10 MHz to 20 GHz
560-7K50	RF Detector, K(m), 50 Ohm, 10 MHz to 40 GHz
560-7VA50	RF Detector, V(m), 50 Ohm, 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/STS	Standard N(m) Short, 3.5 GHz
SM/STSNF	Standard N(f) Short, 3.5 GHz
SM/PL SM/PLNF	Precision N(m) Load, 42 dB, 4.0 GHz Precision N(f) Load, 42 dB, 4.0 GHz
SM/STL	Standard N(m) Load, 35 dB, 3.5 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), 3.5 GHz
2000-768 15NN50-1.5A	Precision Open/Short/Load, 7-16 (f), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(m),
	3.5 GHz
15NN50-3.0A	Test port cable armored, 3.0 meter, N(m) to N(m),
15NN50-5.0A	3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(m),
	3.5 GHz
15NNF50-1.5A	Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 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
15NNF50-3.0A 15NNF50-3.0C	Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(f), 6.0 GHz
15NNF50-5.0A	Test port cable armored, 5.0 meter, N(m) to N(i), 6.0 GHz
15NNF50-5.0C	Test port cable armored, 5.0 meter, N(m) to N(f), 5.0 GHz
15KKF50-1.5A	Test port cable armored, 1.5 meter, K(m) to K(f), 26.5 GHz
15ND50-1.5A	Test port cable armored, 1.5 meter, N(m) to 7/16 (m),
15NDF50-1.5A	3.5 GHz Test port cable armored, 1.5 meter, N(m) to 7/16 (f),
800-109	3.5 GHz Detector extender cable, 7.6 m (25 ft.)
800-109	Detector extender cable, 15.2 m (25 ft.)
800-111	Detector extender cable, 30.5 m (30 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

Model/Order No.Name34RSN50Precision Ruggedized WSMA(m) to N(m) AdaK220BPrecision R(m)-K(m) Adapter, 40 GHz1091-26Adapter N(m) to SMA(m), 18 GHz1091-27Adapter N(m) to SMA(f), 18 GHz510-90Adapter 7-16(f) to N(m), 3.5 GHz510-91Adapter 7-16(m) to N(m), 3.5 GHz510-92Adapter 7-16(m) to N(m), 3.5 GHz510-93Adapter 7/16 (m) to 7/16 (m), 3.5 GHz510-96Adapter 7/16 (m) to 7/16 (m), 3.5 GHz510-97Adapter 7/16 (m) to 7/16 (m), 3.5 GHz528Spare Soft Carrying Case639-27Rechargeable batter, NiMH for "B" version St2300-347Spare Site Master Software Tools10580-00014Spare Site Master Sal1A, S818A User's Guide10580-00028Spare Site Master S400A User's Guide10580-00028Spare Site Master User's Guide (S113B, S118, S118, S322B)10580-00030Spare Site Master S820A User's Guide	e Master DC adapter	
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& S332B) 10580-00030 Spare Site Master S820A User's Guide	14B, S331B	
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10580-00032 Spare Site Master User's Guide (S251B)	0.111	
10580-00010 Site Master Programming Manual (for S110, S112, S113, S330, S331, S300A, S331A, S4		
10580-00015 Site Master Programming Manual (for S810/		
S820A)	ų, CO 107ų,	
10580-00008 Site Master Maintenance Manual (for S331A	4)	
10580-00035 Site Master Programming Manual (for S113E	3, S114B,	
S331B, S332B)	2	
10580-00043 Site Master Programming Manual (for S251E 10580-00022 Site Master Maintenance Manual (for S810A		
10580-00022 Site Master Maintenance Manual (for S010A		
10580-00029 Site Master Maintenance Manual (for S113B		
S331B & S332B)		
10580-00031 Site Master Maintenance Manual (for S820A		
	Site Master Maintenance Manual (for S251B)	
cable, black print cartridge, and US power ca	HP DeskJet printer includes: serial-to-parallel interface	
2000-753 Spare serial-to-parallel converter cable		
2000-661 Black print cartridge		
2000-662 Rechargeable battery for DeskJet printer		
2000-663 Power cable (Europe) for DeskJet printer		
2000-664Power cable (Australia) for DeskJet printer2000-665Power cable (UK) for DeskJet printer		
2000-667 Power cable (So. Africa) for DeskJet printer		
2000-1008 Seiko DPU-441-30BU thermal printer (120VA	AC)	
Includes: internal battery, thermal printer pap	ber,	
serial cable, US power cable		
2000-761 Seiko DPU-441-30BU thermal printer (220V/ Includes: internal battery, thermal printerpPa		
serial cable, Euro power cable	pei,	
2000-755 Five (5) rolls of thermal paper		
2000-756 Spare serial 9-pin to 25-pin D-sub converter	cable	
(Seiko DPU-411)		
2000-1002 US Adapter (for Seiko DPU-41-30BU printer)		
2000-1003 Europe Adapter (for Seiko DPU-41-30BU pri 2000-1004 Battery pack (for Seiko DPU-41-30BU printe		
2000-1004 Battery pack (in Serio Dr 0-41-50B0 prime 2000-1012 Spare serial 9-pin(m) to 9-pin (f) cable	• ,	
(for Seiko DPU-414-30BU printer)		
2000-1029 Battery charger, NiMH for "B" version Site M		
2000-1030 Portable antenna, SMA (m) 1.71 to 1.88 GH		
2000-1031 Portable antenna, SMA (m) 1.85 to 1.99 GHz 2000-1032 Portable antenna, SMA (m) 2.4 to 2.5 GHz	Z	
2000-1032Portable antenna, SMA (m) 2.4 to 2.5 GHz2000-1034Portable antenna, SMA (f) 806 to 869 MHz		
2000-1035 Portable antenna, SMA (i) 600 to 603 Mil2 2000-1035 Portable antenna, SMA (ii) 902 to 960 MHz		

Universal Waveguide Component Accessories

Part number Description Freq. range Waveguide type Compatible flanges XXUM48 1/8, 3/8 Å. Offset Short and Load, Metric 3.30 to 4.90 GHz WR229, WG11A DPR40 XXUM48 1/8, 3/8 Å. Offset Short and Load, Metric 3.30 to 5.85 GHz WR187, WG12 CAR48, PAR48, UAR48, DPR48 XXUM50 1/8, 3/8 Å. Offset Short and Load, Metric 5.85 to 3.20 GHz WR137, WG14 CAR70, PAR70, UAR 70, DPR70 XXUM60 1/8, 3/8 Å. Offset Short and Load, Metric 7.05 to 10.00 GHz WR112, WG15 CBR84, UBR84, PBR84, PDR84 XXUM100 1/8, 3/8 Å. Offset Short and Load, Metric 12.40 GHz WR75, WG17 CBR120, UBR120, DPR120 XXUM140 1/8, 3/8 Å. Offset Short and Load, Metric 12.40 To 18, 0/0 GHz WR75, WG17 CBR120, UBR120, DPR120 XXUM20 1/8, 3/8 Å. Offset Short and Load, US 3.30 to 4.90 GHz WR229, WG14 CPR239C, CPR2300, UG-1357/U XXUM217 1/8, 3/8 Å. Offset Short and Load, US 3.95 to 5.85 GHz WR129, WG12 CPR1397, CPR187C, UG-1352/U, UG-1352/U XXUM218 1/8, 3/8 Å. Offset Short and Load, US 3.95 to 5.85 GHz WR229, WG14 CPR239C, CPR2300, UG-1357/U UG-1357/U <th></th> <th></th> <th><u> </u></th> <th></th> <th></th> <th></th>			<u> </u>			
Mark 1/8, 3/8 Å, Offset Short and Load, Metric 3.95 to 5.85 GHz WR187, WG12 CAR48, PAR48, UAR48, PDR48 XXUM48 1/8, 3/8 Å, Offset Short and Load, Metric 4.90 to 7.05 GHz WR159, WG13 CAR58, PAR58, UAR58, PDR56 XXUM470 1/8, 3/8 Å, Offset Short and Load, Metric 7.05 to 10.00 GHz WR137, WG14 CAR70, PAR70, UAR 70, PDR70 XXUM40 1/8, 3/8 Å, Offset Short and Load, Metric 7.05 to 10.00 GHz WR137, WG14 CAR89, PAR48, UBR44, PDR44 XXUM100 1/8, 3/8 Å, Offset Short and Load, Metric 7.05 to 10.00 GHz WR137, WG14 CBR100, UBR100, PDR100, PDR100 XXUM101 1/8, 3/8 Å, Offset Short and Load, Metric 1/2.40 to 18.00 GHz WR75, WG17 CBR120, UBR120, PDR120 XXUM120 1/8, 3/8 Å, Offset Short and Load, Metric 1/2.40 to 18.00 GHz WR29, WG11A CPR229, CPR229, UG-1350/U, UG-1352/U, UG-1350/U, UG-1352/U, UG		Part number	Description	Freq. range	Waveguide type	Compatible flanges
Mark Number Number Number Number Number Number VAUM50 1/8, 3/8 Å Offset Short and Load, Metric 5.85 to 8.20 GHz VR137, WG14 CAR70, PAR70, UAR 70, PDR70 XXUM70 1/8, 3/8 Å Offset Short and Load, Metric 7.05 to 10.00 GHz WR112, WG15 CBR84, UBR84, PBR84, PDR84 XXUM100 1/8, 3/8 Å Offset Short and Load, Metric 1.00 to 15.00 GHz WR12, WG16 CBR100, UBR100, PBR100, PDR100 XXUM100 1/8, 3/8 Å Offset Short and Load, Metric 1.240 to 18.00 GHz WR75, WG17 CBR140, UBR140, PDR140, PDR140 XXUM20 1/8, 3/8 Å Offset Short and Load, Metric 1.240 to 18.00 GHz WR229, WG114 CPR220, UBR220, PBR220, PDR220 XXUA229 1/8, 3/8 Å Offset Short and Load, US 3.30 to 4.90 GHz WR229, WG114 CPR137C, CPR137C, UC-1352/U, UG-1357/U, UG-1357/U, UG-1357/U, UG-1354/U, UG-1357/U, UG-1720/U, UG-1723/U, UG-1732/U, U		XXUM40	1/8, 3/8 λ Offset Short and Load, Metric	3.30 to 4.90 GHz	WR229, WG11A	PDR40
View XXUM70 1/8, 3/8 Å Offset Short and Load, Metric 5.85 to 8.20 GHz WR137, WG14 CAR70, PAR70, UAR 70, PDR70 XXUM84 1/8, 3/8 Å Offset Short and Load, Metric 7.05 to 10.00 GHz WR112, WG16 CBR84, UBR84, PDR84 XXUM100 1/8, 3/8 Å Offset Short and Load, Metric 8.20 to 12.40 GHz WR90, WG16 CBR100, UBR100, PBR100, PDR100 XXUM120 1/8, 3/8 Å Offset Short and Load, Metric 12.40 to 18.00 GHz WR62, WG18 CBR100, UBR100, PBR100, PDR140 XXUM220 1/8, 3/8 Å Offset Short and Load, Metric 12.40 to 18.00 GHz WR62, WG18 CBR140, UBR140, PBR140, PDR140 XXUM220 1/8, 3/8 Å Offset Short and Load, US 3.30 to 4.90 GHz WR229, WG11A CPR229, UBR220, PBR220, PDR220 XXUA127 1/8, 3/8 Å Offset Short and Load, US 3.95 to 5.85 GHz WR197, WG12 CPR159F, CPR159G, UG-1352/U, UG-1352		XXUM48	1/8, 3/8 λ Offset Short and Load, Metric	3.95 to 5.85 GHz	WR187, WG12	CAR48, PAR48, UAR48, PDR48
Mag XUM84 1/8, 3/8 \raket Offset Short and Load, Metric 7.05 to 10.00 GHz WR112, WG15 CBR84, UBR84, PBR84, PDR84 XXUM100 1/8, 3/8 \raket Offset Short and Load, Metric 10.00 to 15.00 GHz WR90, WG16 CBR100, UBR100, PBR100, PDR100 XXUM120 1/8, 3/8 \raket Offset Short and Load, Metric 12.40 to 18.00 GHz WR75, WG17 CBR140, UBR140, PBR140, PDR140 XXUM410 1/8, 3/8 \raket Offset Short and Load, Metric 12.40 to 18.00 GHz WR42, WG20 CBR220, UBR220, PBR220, PDR220 XXUA229 1/8, 3/8 \raket Offset Short and Load, US 3.95 to 5.85 GHz WR127, WG11 CPR137F, CPR137G, UG-1352U, UG-1352		XXUM58	1/8, 3/8 λ Offset Short and Load, Metric	4.90 to 7.05 GHz	WR159, WG13	CAR58, PAR58, UAR58, PDR58
Math Xumion 1/8, 3/8 \raket Offset Short and Load, Metric 8.20 to 12.40 GHz WR90, WG16 CBR100, UBR100, PBR100, PDR100 XXUM120 1/8, 3/8 \raket Offset Short and Load, Metric 12.00 to 15.00 GHz WR75, WG17 CBR120, UBR120, PBR120, PDR120 XXUM120 1/8, 3/8 \raket Offset Short and Load, Metric 12.40 to 18.00 GHz WR82, WG20 CBR220, UBR220, PBR220, PDR220 XXUA229 1/8, 3/8 \raket Offset Short and Load, US 3.30 to 4.90 GHz WR129, WG11A CPR229F, CPR229G, UG-1350/U, UG-1357/U, UG-1732/U, UG-1733/U, UG-3438/U, UG-348/U, UG-4187/U, UG-1357/U, UG-1733/U, UG-3438/U, UG-348/U, UG-4187/U, UG-1735/U, UG-1735/U, UG-1358/U, UG-1357/U, UG-1738/U, UG-1735/U, UG-1735/U, UG-1358/U, UG-1357/U, UG-1738/U, UG-1735/U, UG-1358/U, UG-348/U, UG-4187/U, UG-1738/U, UG-1738/U, UG-1358/U, UG-1359/U, UG-1358/U, UG-1358/U, UG-1358/U, UG-1358/U, UG-1358/U, UG-1358/U, UG-1358/U, UG-1358/U, UG-1358/U, UG-1388/U XXUA112 1/8, 3/8 \raket Offset Short and Load, US 7.05 to 10.00 GHz WR112, WG15 CPR12F, CPR112G, UG-1388/U, UG-1361/U, UG-138/U, UG-		XXUM70	1/8, 3/8 λ Offset Short and Load, Metric	5.85 to 8.20 GHz	WR137, WG14	
VIUN120 1/8, 3/8 λ. Offset Short and Load, Metric 10.00 to 15.00 GHz WR75, WG17 CBR120, UBR120, PBR120, PDR120 XXUM140 1/8, 3/8 λ. Offset Short and Load, Metric 12.40 to 18.00 GHz WR62, WG18 CBR140, UBR140, PBR140, PDR140 XXUM220 1/8, 3/8 λ. Offset Short and Load, Metric 17.00 to 26.50 GHz WR42, WG20 CBR220, UBR220, DBR220, PDR220 XXUA229 1/8, 3/8 λ. Offset Short and Load, US 3.30 to 4.90 GHz WR229, WG11A CPR229F, CPR229G, UG-1352/U, UG-1352/U, UG-1352/U, UG-1352/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1736/U, UG-1356/U, UG-1357/U, UG-1736/U, UG-1737/U, UG-348/U, UG-136/U, UG-1736/U, UG-1737/U, UG-482/U XXUA12 1/8, 3/8 λ. Offset Short and Load, US 7.05 to 10.00 GHz WR112, WG16 CPR19FF, CPR1126, UG-136/U, UG-1737/U, UG-348/U, UG-348/U, UG-348/U, UG-1736/U, UG-1737/U, UG-348/U, UG-392/U, UG-386/U, UG-1737/U, UG-386/		XXUM84	1/8, 3/8 λ Offset Short and Load, Metric	7.05 to 10.00 GHz	WR112, WG15	CBR84, UBR84, PBR84, PDR84
WILL XIUM140 1/8, 3/8 λ. Offset Short and Load, Metric 12.40 to 18.00 GHz WR62, WG18 CBR140, UBR140, PBR140, PDR140 XXUM220 1/8, 3/8 λ. Offset Short and Load, Metric 17.00 to 26.50 GHz WR42, WG20 CBR220, UBR220, PDR220, PDR220 XXUA229 1/8, 3/8 λ. Offset Short and Load, US 3.30 to 4.90 GHz WR22, WG11A CPR29F, CPR229F, CPR229F, CPR229G, UG-1350/U, UG-1351/U, UG-1726/U, UG-1728/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-1728/U, UG-1738/U, UG-348/U, UG-3136/U, UG-136/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-1736/U, UG-3736/U, UG-364/U, UG-3736/U,		XXUM100	1/8, 3/8 λ Offset Short and Load, Metric	8.20 to 12.40 GHz	WR90, WG16	CBR100, UBR100, PBR100, PDR100
YXUM220 1/8, 3/8 Å. Offset Short and Load, Metric 17.00 to 26.50 GHz WR42, WG20 CBR220, UBR220, PBR220, PDR220 XXUA229 1/8, 3/8 Å. Offset Short and Load, US 3.30 to 4.90 GHz WR229, WG11A CPR239F, CPR229G, UG-1350/U, UG-1351/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1352/U, UG-1353/U, UG-149A/U XXUA159 1/8, 3/8 Å. Offset Short and Load, US 3.96 to 7.05 GHz WR159, WG13 CPR187F, CPR187G, UG-1352/U, UG-1356/U, UG-1356/U		XXUM120	1/8, 3/8 λ Offset Short and Load, Metric	10.00 to 15.00 GHz	WR75, WG17	CBR120, UBR120, PBR120, PDR120
YUNA229 1/8, 3/8 \raket Offset Short and Load, US 3.30 to 4.90 GHz WR229, WG11A CPR229F, CPR229G, UG-1350/U, UG-1351/U, UG-1350/U, UG-1350/U, UG-1353/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1728/U, UG-1352/U, UG-1353/U, UG-1355/U, UG-355/U, UG-357/U, UG-355/U, UG-3556/U, WR137, WG14		XXUM140	1/8, 3/8 λ Offset Short and Load, Metric	12.40 to 18.00 GHz	WR62, WG18	CBR140, UBR140, PBR140, PDR140
Mathematical State UG-1726/U, UG-1727/U VXUA187 1/8, 3/8 \lambda Offset Short and Load, US 3.95 to 5.85 GHz WR187, WG12 CPR187F, CPR187G, UG-1352/U, UG-1353/U, UG-1355/U, UG-1356/U, UG-1357/U, UG-1357/U, UG-1358/U, UG-3438/U XXUA112 1/8, 3/8 \lambda Offset Short and Load, US 7.05 to 10.00 GHz WR112, WG15 CPR112F, CPR12G, UG-1356/U, UG-1357/U, UG-1457/U, U		XXUM220	1/8, 3/8 λ Offset Short and Load, Metric	17.00 to 26.50 GHz	WR42, WG20	CBR220, UBR220, PBR220, PDR220
Mathematical and the standard of the st		XXUA229	1/8, 3/8 λ Offset Short and Load, US	3.30 to 4.90 GHz	WR229, WG11A	
XXUA42 1/8, 3/8 \lambda Offset Short and Load, US 17.00 to 26.50 GHz WR42, WG20 UG-596A/U, UG-595/U, UG-597/U, UG-597/U, UG-598A/U XXCMR229 1/8, 3/8 \lambda Offset Short and Load, CMR 3.30 to 4.90 GHz WR229, WG11A CMR229 XXCMR187 1/8, 3/8 \lambda Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 \lambda Offset Short and Load, CMR 4.90 to 7.05 GHz WR137, WG14 CMR199 XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 8.20 GHz WR112, WG15 CMR147/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR190, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR190, UG1478/U, UG1482/U XXUER40 1/8, 3/8 \lambda Offset Short and Load, CMR 8.20 to 12.40 GHz WR29, WG11A UER40 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.30 to 4.90 GHz WR212, WG12 UER48 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48	nts	XXUA187	1/8, 3/8 λ Offset Short and Load, US	3.95 to 5.85 GHz	WR187, WG12	
XXUA42 1/8, 3/8 \lambda Offset Short and Load, US 17.00 to 26.50 GHz WR42, WG20 UG-596A/U, UG-595/U, UG-597/U, UG-597/U, UG-598A/U XXCMR229 1/8, 3/8 \lambda Offset Short and Load, CMR 3.30 to 4.90 GHz WR229, WG11A CMR229 XXCMR187 1/8, 3/8 \lambda Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 \lambda Offset Short and Load, CMR 4.90 to 7.05 GHz WR137, WG14 CMR199 XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 8.20 GHz WR112, WG15 CMR147/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR190, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR190, UG1478/U, UG1482/U XXUER40 1/8, 3/8 \lambda Offset Short and Load, CMR 8.20 to 12.40 GHz WR29, WG11A UER40 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.30 to 4.90 GHz WR212, WG12 UER48 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48	upone	XXUA159	1/8, 3/8 λ Offset Short and Load, US	4.90 to 7.05 GHz	WR159, WG13	
XXUA42 1/8, 3/8 \lambda Offset Short and Load, US 17.00 to 26.50 GHz WR42, WG20 UG-596A/U, UG-595/U, UG-597/U, UG-597/U, UG-598A/U XXCMR229 1/8, 3/8 \lambda Offset Short and Load, CMR 3.30 to 4.90 GHz WR229, WG11A CMR229 XXCMR187 1/8, 3/8 \lambda Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 \lambda Offset Short and Load, CMR 4.90 to 7.05 GHz WR137, WG14 CMR199 XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 8.20 GHz WR112, WG15 CMR147/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR190, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR190, UG1478/U, UG1482/U XXUER40 1/8, 3/8 \lambda Offset Short and Load, CMR 8.20 to 12.40 GHz WR29, WG11A UER40 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.30 to 4.90 GHz WR212, WG12 UER48 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48	ation cor	XXUA137	1/8, 3/8 λ Offset Short and Load, US	5.85 to 8.20 GHz	WR137, WG14	UG-1732/U, UG-1733/U, UG-343B/U, UG-344/U,
XXUA42 1/8, 3/8 \lambda Offset Short and Load, US 17.00 to 26.50 GHz WR42, WG20 UG-596A/U, UG-595/U, UG-597/U, UG-597/U, UG-598A/U XXCMR229 1/8, 3/8 \lambda Offset Short and Load, CMR 3.30 to 4.90 GHz WR229, WG11A CMR229 XXCMR187 1/8, 3/8 \lambda Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 \lambda Offset Short and Load, CMR 4.90 to 7.05 GHz WR137, WG14 CMR199 XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 8.20 GHz WR112, WG15 CMR147/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR190, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR190, UG1478/U, UG1482/U XXUER40 1/8, 3/8 \lambda Offset Short and Load, CMR 8.20 to 12.40 GHz WR29, WG11A UER40 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.30 to 4.90 GHz WR212, WG12 UER48 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48	de calibr	XXUA112	1/8, 3/8 λ Offset Short and Load, US	7.05 to 10.00 GHz	WR112, WG15	UG-1734/U, UG-1735/U, UG-52B/U, UG-51/U,
XXUA42 1/8, 3/8 \lambda Offset Short and Load, US 17.00 to 26.50 GHz WR42, WG20 UG-596A/U, UG-595/U, UG-597/U, UG-597/U, UG-598A/U XXCMR229 1/8, 3/8 \lambda Offset Short and Load, CMR 3.30 to 4.90 GHz WR229, WG11A CMR229 XXCMR187 1/8, 3/8 \lambda Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 \lambda Offset Short and Load, CMR 4.90 to 7.05 GHz WR137, WG14 CMR199 XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 8.20 GHz WR112, WG15 CMR147/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR190, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR190, UG1478/U, UG1482/U XXUER40 1/8, 3/8 \lambda Offset Short and Load, CMR 8.20 to 12.40 GHz WR29, WG11A UER40 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.30 to 4.90 GHz WR212, WG12 UER48 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48	wavegu	XXUA90	1/8, 3/8 λ Offset Short and Load, US	8.20 to 12.40 GHz	WR90, WG16	UG-1736/U, UG-1737/U, UG-40B/U, UG-39/U,
XXUA42 1/8, 3/8 \lambda Offset Short and Load, US 17.00 to 26.50 GHz WR42, WG20 UG-596A/U, UG-595/U, UG-597/U, UG-597/U, UG-598A/U XXCMR229 1/8, 3/8 \lambda Offset Short and Load, CMR 3.30 to 4.90 GHz WR229, WG11A CMR229 XXCMR187 1/8, 3/8 \lambda Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 \lambda Offset Short and Load, CMR 4.90 to 7.05 GHz WR137, WG14 CMR199 XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 8.20 GHz WR112, WG15 CMR147/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR190, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR190, UG1478/U, UG1482/U XXUER40 1/8, 3/8 \lambda Offset Short and Load, CMR 8.20 to 12.40 GHz WR29, WG11A UER40 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.30 to 4.90 GHz WR212, WG12 UER48 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48	son	XXUA75	1/8, 3/8 λ Offset Short and Load, US	10.00 to 15.00 GHz	WR75, WG17	WR75
XXUA42 1/8, 3/8 \lambda Offset Short and Load, US 17.00 to 26.50 GHz WR42, WG20 UG-596A/U, UG-595/U, UG-597/U, UG-597/U, UG-598A/U XXCMR229 1/8, 3/8 \lambda Offset Short and Load, CMR 3.30 to 4.90 GHz WR229, WG11A CMR229 XXCMR187 1/8, 3/8 \lambda Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 \lambda Offset Short and Load, CMR 4.90 to 7.05 GHz WR137, WG14 CMR199 XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 8.20 GHz WR112, WG15 CMR147/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR190, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 \lambda Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR190, UG1478/U, UG1482/U XXUER40 1/8, 3/8 \lambda Offset Short and Load, CMR 8.20 to 12.40 GHz WR29, WG11A UER40 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.30 to 4.90 GHz WR212, WG12 UER48 XXUER48 1/8, 3/8 \lambda Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48	rec	XXUA62	1/8, 3/8 λ Offset Short and Load, US	12.40 to 18.00 GHz	WR62, WG18	UG-541A/U, UG-419/U, UG-1665/U, UG1666/U
XXCMR187 1/8, 3/8 λ Offset Short and Load, CMR 3.95 to 5.85 GHz WR187, WG12 CMR187, UG1475/U, UG1480/U XXCMR159 1/8, 3/8 λ Offset Short and Load, CMR 4.90 to 7.05 GHz WR159, WG13 CMR159 XXCMR137 1/8, 3/8 λ Offset Short and Load, CMR 5.85 to 8.20 GHz WR137, WG14 CMR137, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 λ Offset Short and Load, CMR 5.85 to 10.00 GHz WR112, WG15 CMR112, UG1477/U, UG1482/U XXCMR90 1/8, 3/8 λ Offset Short and Load, CMR 7.05 to 10.00 GHz WR90, WG16 CMR90, UG1478/U, UG1483/U XXUER40 1/8, 3/8 λ Offset Short and Load, CMR 8.20 to 12.40 GHz WR229, WG11A UER40 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.30 to 4.90 GHz WR157, WG12 UER40 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR157, WG12 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR159, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR159, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 <t< td=""><td><u>с</u></td><td>XXUA42</td><td>1/8, 3/8 λ Offset Short and Load, US</td><td>17.00 to 26.50 GHz</td><td>WR42, WG20</td><td>UG-596A/U, UG-595/U, UG-597/U, UG-598A/U</td></t<>	<u>с</u>	XXUA42	1/8, 3/8 λ Offset Short and Load, US	17.00 to 26.50 GHz	WR42, WG20	UG-596A/U, UG-595/U, UG-597/U, UG-598A/U
XXCMR159 1/8, 3/8 λ Offset Short and Load, CMR 4.90 to 7.05 GHz WR159, WG13 CMR159 XXCMR137 1/8, 3/8 λ Offset Short and Load, CMR 5.85 to 8.20 GHz WR137, WG14 CMR137, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 λ Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR112, UG1477/U, UG1482/U XXCMR90 1/8, 3/8 λ Offset Short and Load, CMR 8.20 to 12.40 GHz WR90, WG16 CMR90, UG1478/U, UG1483/U XXUER40 1/8, 3/8 λ Offset Short and Load, UER 3.30 to 4.90 GHz WR229, WG11A UER40 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR159, WG13 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR159, WG13 UER48 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR159, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 7.05 to 10.00 GHz		XXCMR229	1/8, 3/8 λ Offset Short and Load, CMR	3.30 to 4.90 GHz	WR229, WG11A	CMR229
XXCMR137 1/8, 3/8 λ Offset Short and Load, CMR 5.85 to 8.20 GHz WR137, WG14 CMR137, UG1476/U, UG1481/U XXCMR112 1/8, 3/8 λ Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR112, UG1477/U, UG1482/U XXCMR90 1/8, 3/8 λ Offset Short and Load, CMR 8.20 to 12.40 GHz WR90, WG16 CMR90, UG1478/U, UG1483/U XXUER40 1/8, 3/8 λ Offset Short and Load, UER 3.30 to 4.90 GHz WR229, WG11A UER40 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR137, WG14 UER70 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70		XXCMR187	1/8, 3/8 λ Offset Short and Load, CMR	3.95 to 5.85 GHz	WR187, WG12	CMR187, UG1475/U, UG1480/U
XXCMR112 1/8, 3/8 λ Offset Short and Load, CMR 7.05 to 10.00 GHz WR112, WG15 CMR112, UG1477/U, UG1482/U XXCMR90 1/8, 3/8 λ Offset Short and Load, CMR 8.20 to 12.40 GHz WR90, WG16 CMR90, UG1478/U, UG1483/U XXUER40 1/8, 3/8 λ Offset Short and Load, UER 3.30 to 4.90 GHz WR229, WG11A UER40 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR137, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 5.05 to 10.00 GHz WR112, WG15 UER84		XXCMR159	1/8, 3/8 λ Offset Short and Load, CMR	4.90 to 7.05 GHz	WR159, WG13	CMR159
XXCMR90 1/8, 3/8 λ Offset Short and Load, CMR 8.20 to 12.40 GHz WR90, WG16 CMR90, UG1478/U, UG1483/U XXUER40 1/8, 3/8 λ Offset Short and Load, UER 3.30 to 4.90 GHz WR229, WG11A UER40 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR159, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 7.05 to 10.00 GHz WR112, WG15 UER84		XXCMR137	1/8, 3/8 λ Offset Short and Load, CMR	5.85 to 8.20 GHz	WR137, WG14	CMR137, UG1476/U, UG1481/U
XXUER40 1/8, 3/8 λ Offset Short and Load, UER 3.30 to 4.90 GHz WR229, WG11A UER40 XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR159, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 7.05 to 10.00 GHz WR112, WG15 UER84		XXCMR112	1/8, 3/8 λ Offset Short and Load, CMR	7.05 to 10.00 GHz	WR112, WG15	CMR112, UG1477/U, UG1482/U
XXUER48 1/8, 3/8 λ Offset Short and Load, UER 3.95 to 5.85 GHz WR187, WG12 UER48 XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR159, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 7.05 to 10.00 GHz WR112, WG15 UER84		XXCMR90	1/8, 3/8 λ Offset Short and Load, CMR	8.20 to 12.40 GHz	WR90, WG16	CMR90, UG1478/U, UG1483/U
XXUER58 1/8, 3/8 λ Offset Short and Load, UER 4.90 to 7.05 GHz WR159, WG13 UER58 XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 7.05 to 10.00 GHz WR112, WG15 UER84		XXUER40	1/8, 3/8 λ Offset Short and Load, UER	3.30 to 4.90 GHz	WR229, WG11A	UER40
XXUER70 1/8, 3/8 λ Offset Short and Load, UER 5.85 to 8.20 GHz WR137, WG14 UER70 XXUER84 1/8, 3/8 λ Offset Short and Load, UER 7.05 to 10.00 GHz WR112, WG15 UER84		XXUER48	1/8, 3/8 λ Offset Short and Load, UER	3.95 to 5.85 GHz	WR187, WG12	UER48
XXUER84 1/8, 3/8 λ Offset Short and Load, UER 7.05 to 10.00 GHz WR112, WG15 UER84		XXUER58	1/8, 3/8 λ Offset Short and Load, UER	4.90 to 7.05 GHz	WR159, WG13	UER58
		XXUER70	1/8, 3/8 λ Offset Short and Load, UER	5.85 to 8.20 GHz	WR137, WG14	UER70
XXUER100 1/8, 3/8 λ Offset Short and Load, UER 8.20 to 12.40 GHz WR90, WG16 UER100		XXUER84	1/8, 3/8 λ Offset Short and Load, UER	7.05 to 10.00 GHz	WR112, WG15	UER84
		XXUER100	1/8, 3/8 λ Offset Short and Load, UER	8.20 to 12.40 GHz	WR90, WG16	UER100

Note: Part number Prefix (XX) - 23 for 1/8 λ offset short - 24 for 3/8 λ offset short - 26 for Precision waveguide load

NETWORK ANALYZERS

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	Part number	Description	Freq range	Waveguide type	Compatible flanges
	35UM40N	Coaxial Adapter, N(m), Metric	3.30 to 4.90 GHz	WR229, WG11A	PDR40
	35UM48N	Coaxial Adapter, N(m), Metric	3.95 to 5.85 GHz	WR187, WG12	CAR48, PAR48, UAR48, PDR48
	35UM58N	Coaxial Adapter, N(m), Metric	4.90 to 7.05 GHz	WR159, WG13	CAR58, PAR58, UAR58, PDR58
	35UM70N	Coaxial Adapter, N(m), Metric	5.85 to 8.20 GHz	WR137, WG14	CAR70, PAR70, UAR 70, PDR70
	35UM84N	Coaxial Adapter, N(m), Metric	7.05 to 10.00 GHz	WR112, WG15	CBR84, UBR84, PBR84, PDR84
	35UM100N	Coaxial Adapter, N(m), Metric	8.20 to 12.40 GHz	WR90, WG16	CBR100, UBR100, PBR100, PDR100
	35UM120N	Coaxial Adapter, N(m), Metric	10.00 to 15.00 GHz	WR75, WG17	CBR120, UBR120, PBR120, PDR120
	35UM140N	Coaxial Adapter, N(m), Metric	12.40 to 18.00 GHz	WR62, WG18	CBR140, UBR140, PBR140, PDR140
	35UM220K	Coaxial Adapter, K(m), Metric	17.00 to 26.50 GHz	WR42, WG20	CBR220, UBR220, PBR220, PDR220
	35UA229N	Coaxial Adapter, N(m), US	3.30 to 4.90 GHz	WR229, WG11A	CPR229F, CPR229G, UG-1350/U, UG-1351/U, UG-1726/U, UG-1727/U
S	35UA187N	Coaxial Adapter, N(m),US	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
dapter	35UA159N	Coaxial Adapter, N(m), US	4.90 to 7.05 GHz	WR159, WG13	CPR159F, CPR159G, UG-1354/U, UG-1355/U, UG-1730/U, UG-1731/U
oaxial a	35UA137N	Coaxial Adapter, N(m), US	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
Precison waveguide-to-coaxial adapters	35UA112N	Coaxial Adapter, N(m),US	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
on waveç	35UA90N	Coaxial Adapter, N(m),US	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
ecise	35UA75N	Coaxial Adapter, N(m), US	10.00 to 15.00 GHz	WR75, WG17	WR75
Pres	35UA62N	Coaxial Adapter, N(m), US	12.40 to 18.00 GHz	WR62, WG18	UG-541A/U, UG-419/U, UG-1665/U, UG1666/U
	35UA42K	Coaxial Adapter, K(m), US	17.00 to 26.50 GHz	WR42, WG20	UG-596A/U, UG-595/U, UG-597/U, UG-598A/U
	35CMR229N	Coaxial Adapter, N(m), CMR	3.30 to 4.90 GHz	WR229, WG11A	CMR229
	35CMR187N	Coaxial Adapter, N(m), CMR	3.95 to 5.85 GHz	WR187, WG12	CMR187, UG1475/U, UG1480/U
	35CMR159N	Coaxial Adapter, N(m), CMR	4.90 to 7.05 GHz	WR159, WG13	CMR159
	35CMR137N	Coaxial Adapter, N(m), CMR	5.85 to 8.20 GHz	WR137, WG14	CMR137, UG1476/U, UG1481/U
	35CMR112N	Coaxial Adapter, N(m), CMR	7.05 to 10.00 GHz	WR112, WG15	CMR112, UG1477/U, UG1482/U
	35CMR90N	Coaxial Adapter, N(m), CMR	8.2 to 12.4 GHz	WR90, WG16	CMR90, UG1478/U, UG1483/U
	35UER40N	Coaxial Adapter, N(m), UER	3.30 to 4.90 GHz	WR229, WG11A	UER40
	35UER48N	Coaxial Adapter, N(m), UER	3.95 to 5.85 GHz	WR187, WG12	UER48
	35UER58N	Coaxial Adapter, N(m), UER	4.90 to 7.05 GHz	WR159, WG13	UER58
	35UER70N	Coaxial Adapter, N(m), UER	5.85 to 8.20 GHz	WR137, WG14	UER70
	35UER84N	Coaxial Adapter, N(m), UER	7.05 to 10.00 GHz	WR112, WG15	UER84
	35UER100N	Coaxial Adapter, N(m) UER	8.2 to 12.4 GHz	WR90, WG16	UER100