

Anritsu

Broadband Site Master™ S810D/S820D

25 MHz 20 GHz



SiteMaster 

Anritsu Site Master

Site Master,

Site Master

Site Master S800

25 MHz 20 GHz

TFT

DTF

GPS



Site Master - Frequency Domain Reflectometry (FDR)

Site Master

Site Master,

Site Master

FDR

Frequency Domain Reflectometry, (FDR), Time Domain Reflectometry, (TDR),

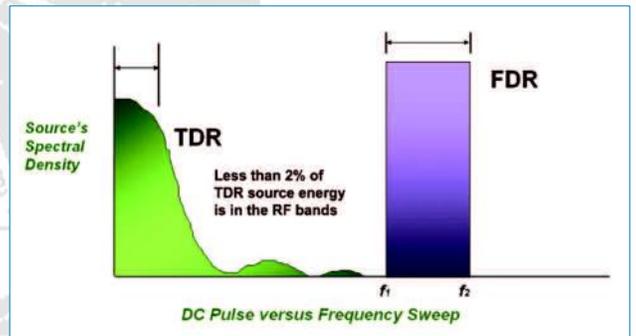
TDR

TDR

FDR.

FDR

FDR



TDR Site Master

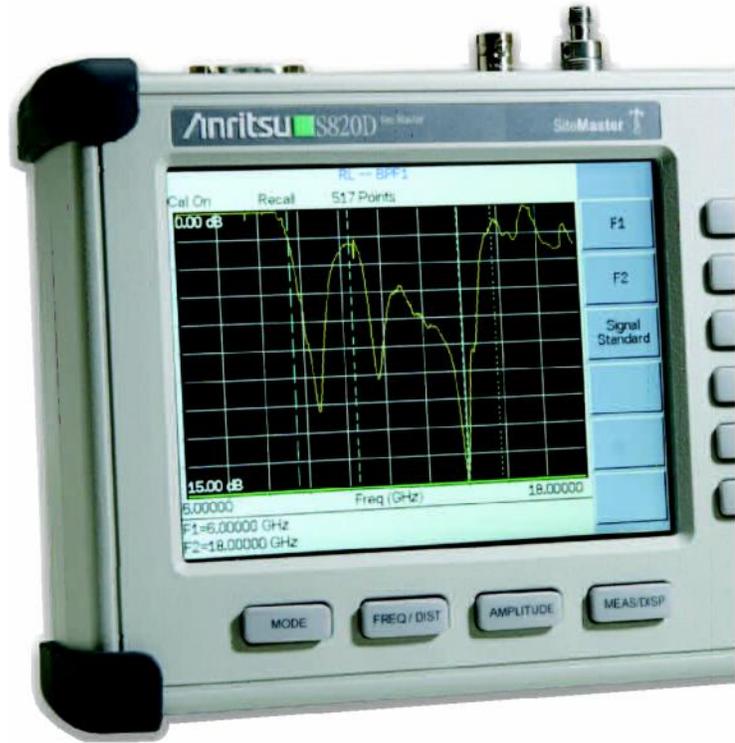
FDR.

Site Master,

, DTF ().

Fault

Distance-To-



S800

FDR,

DTF.

Site Master S8x0 "D"

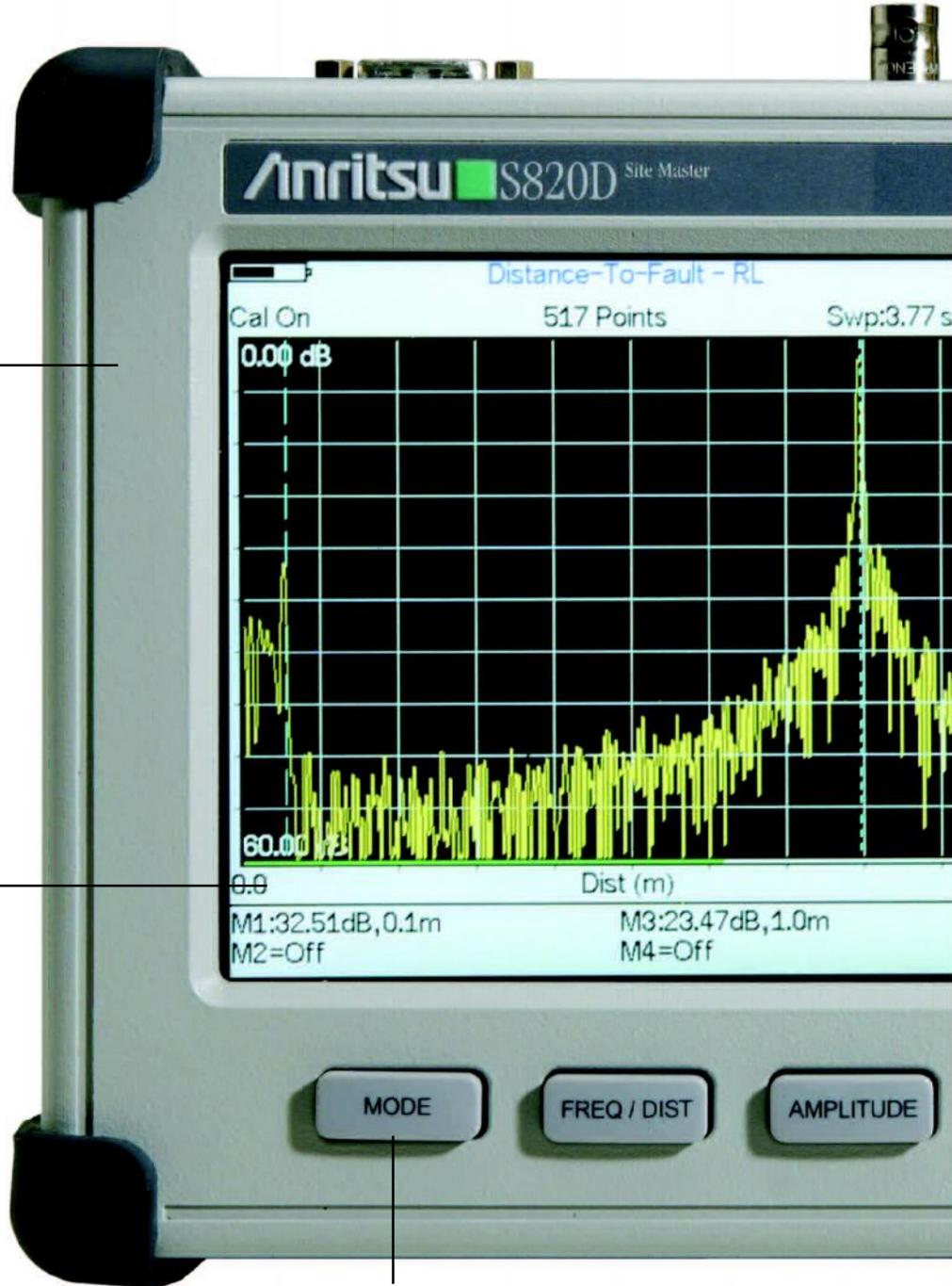
Site Master,

K, N, TNC.



Power Monitor (S8x0D/5)

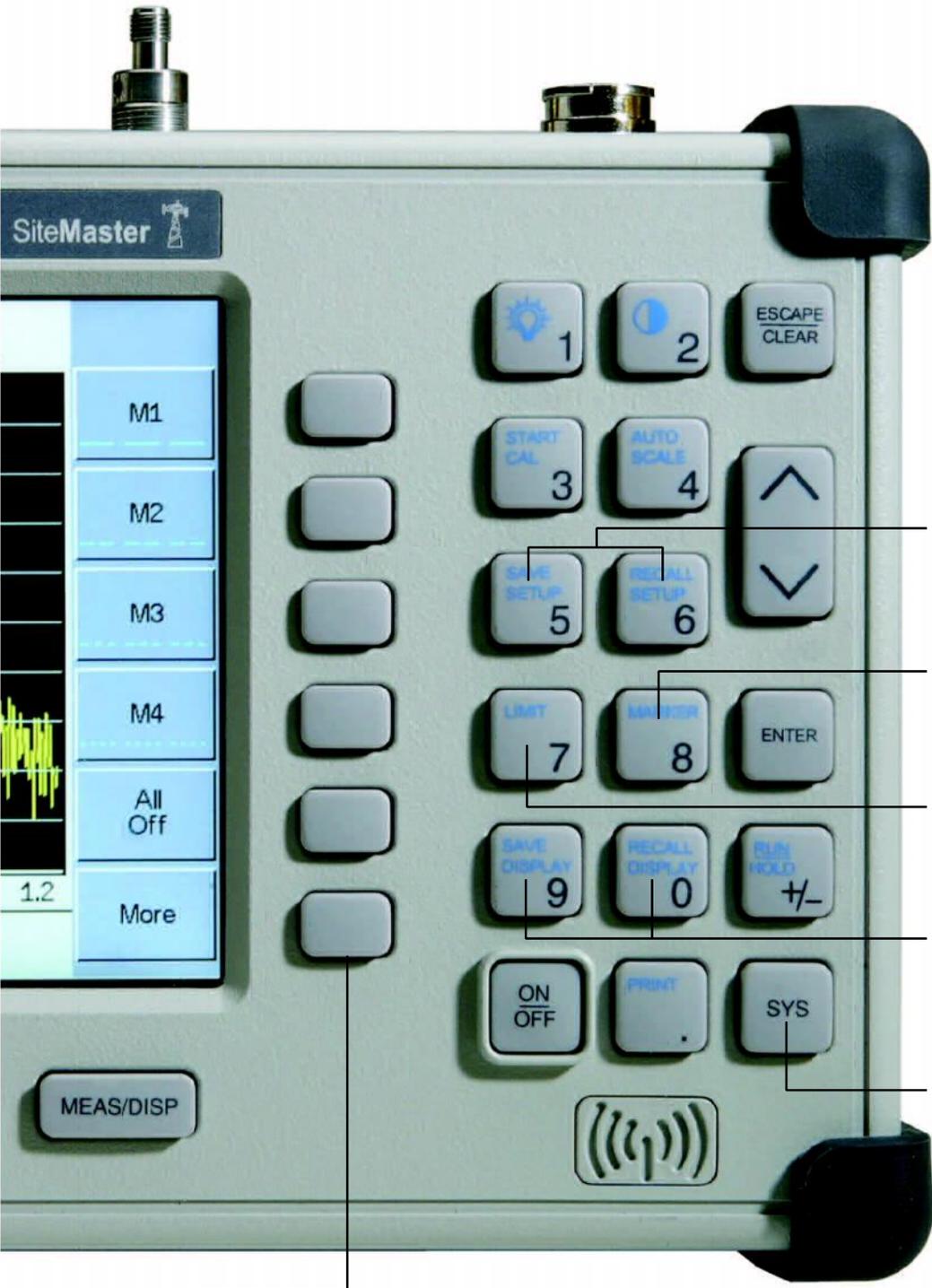
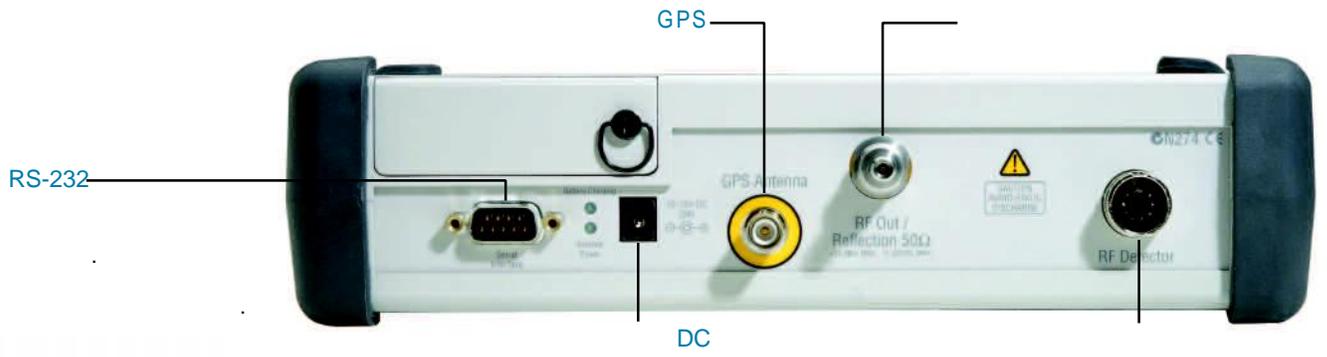
GPS (S8x0D/31)



TFT

TFT (640 x 480)

25.4 x 17.8 x 6.1 cm



25

200

6-

Power Monitor (S8x0D/5)

5

5400 560,

(dBm mW).



Power Monitor



GPS

GPS
(2000-14010).

GPS (S8x0D/31)

GPS (. Site Master,)

. Site Master,

. Site Master

GPS

GPS

GPS

(5 .)

Handheld Software Tools™

Site Master

Site Master

Windows®



Site Master

23°C ± 3°C,

“typical”

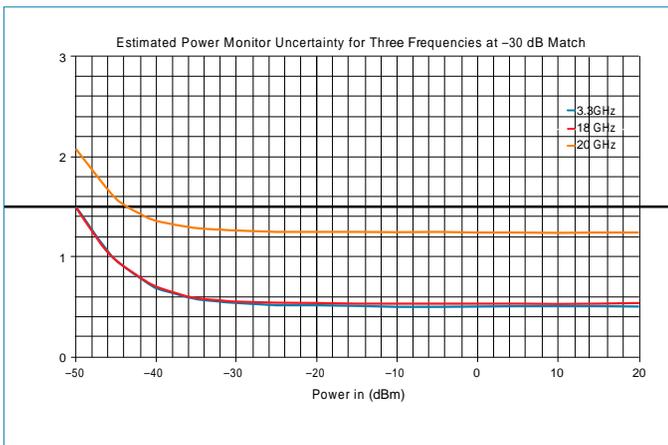
		25 MHz 25 MHz	20000 MHz 10500 MHz	(S820D) (S810D)
	(CW)	≤3 ppm +25°C		
		10 kHz		
		≤0 dBm		
		+13 dBm		
		-10 dBm		
	.DTF	≤2 /	517	(CW .)
		≤4 /	517	(CW .)
		130, 259, 517		
		0.00	60.00 dB	
		0.01 dB		
		1.00	65.53	
		0.01		
	/	0.00	30.00 dB	
		0.01 dB		
		≥42 dB	<5 GHz	
		≥36 dB	<15 GHz	
		≥32 dB	>15 GHz	
		(.)		
		0.00	60 dB	
		1.00	65.53	
		0 (#	. -1) x	
		#	= 130, 259, 517	
(DTF)		$\frac{(1.5 \times 10^8) (V_p)}{F}$	$\frac{V_p}{F}$ (Hz).	
		$\frac{1.5 \times 10^8 (\sqrt{1-(F_c/F_1)^2})}{F}$	F_c (Hz), F (Hz);	
		F_1	(Hz)	
		K(f)	N(f)	11N

()

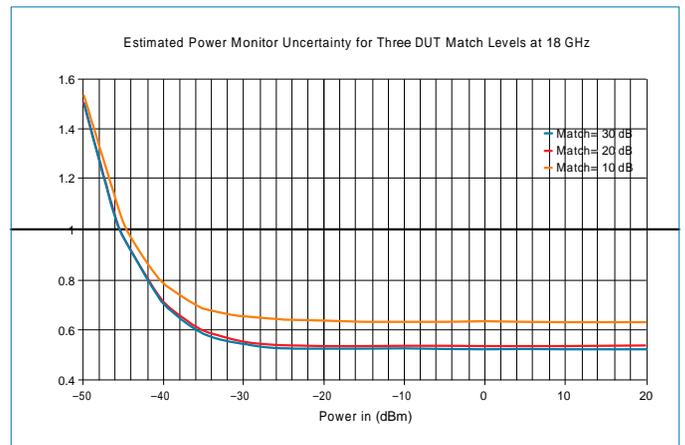
		Chinese, English, French, German, Japanese, and Spanish	
-		200	
-		25	
-		50	
		, TFT	
		Type k(f) test port, 50Ω	+23 dBm (), ±50 VDC,
		(S8x0D/11NF) N(f), 50Ω	+23 dBm (), ±50 VDC,
	GPS	Reverse BNC(m), 50Ω	GPS
		N(m), 50Ω	+20 dBm (Peak), Maximum input without damage
	9 pin D-sub	RS-232 three wire serial	
		EN61326-1:1998	
		EN61010-1:2001	
(MIL-PRF- 28800F Class 2)	/	-10°C 55°C, 85%	
		-51°C to +71°C (0°C + 40 °C)	
		(5 55 Hz); (10 500 Hz)	
		30G, 11 msec	
		DC : +12 to +15 Volt DC, 3A	
		NiMH : 10.8 volts, 1800 mAh	
		(W x H x D)	25.4 cm x 17.8 cm x 6.1 cm
			<2.28 kg

Power Monitor (S8X0D/5)		-50 +20 dBm, 10 nW 100 mV
		0 +60 dB
		-80 80 dBm
		0.1 dB, 0.1 xW
		±1 dB . >-40 dBm <18 GHz 560-7N50B (.)
GPS (S8X0D/31)		

560-7N50B,
(DUT).



-30 dB



18 GHz

23° ±3°C

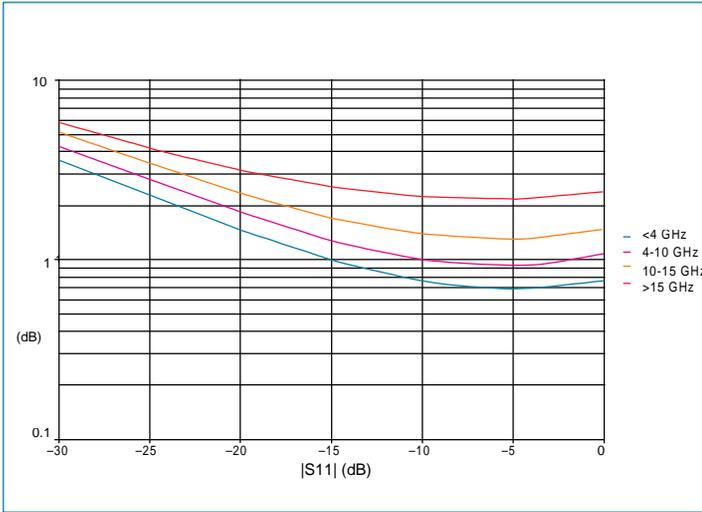
N.

22K50 28K50
:

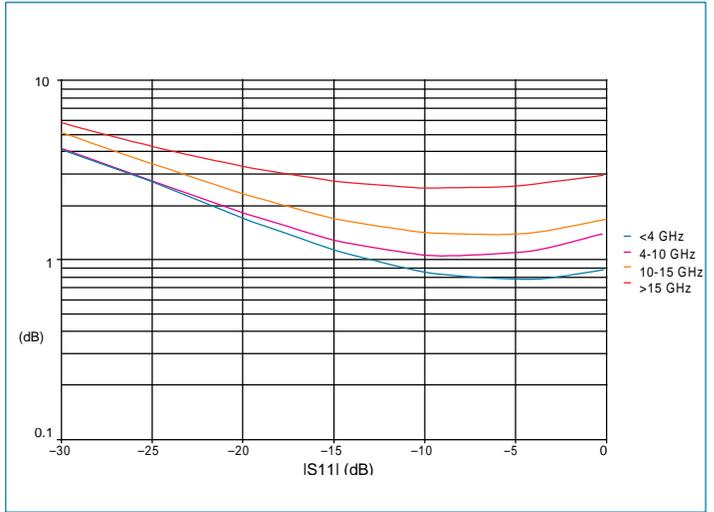
22N50, 28N50-2

N,

CW



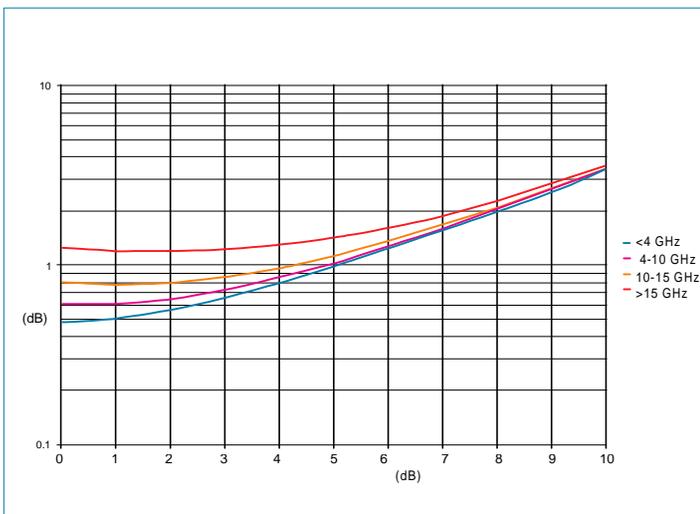
(S820D, K)



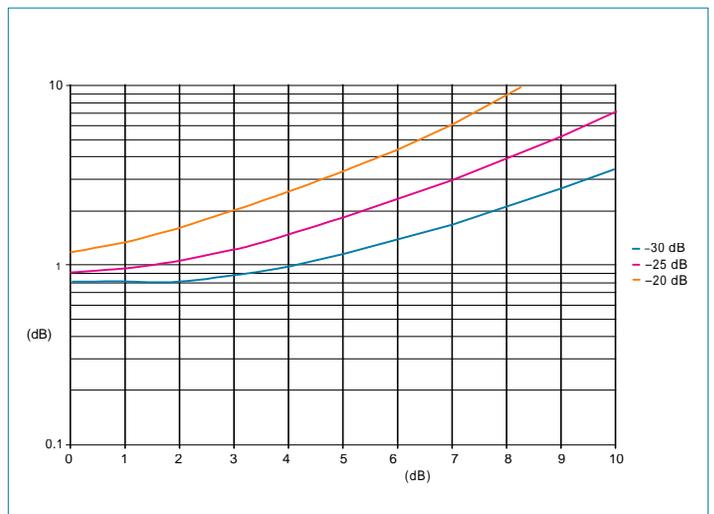
(S820D, N)

820D

(DUT):



S820D , DUT Match = -30 dB



S820D DUT Match, = 10 GHz

S810D	(25 MHz DTF, K(f)	10.5 GHz)
S820D	(25 MHz DTF, K(f)	20 GHz)

S8X0D/5	Power Monitor ()
S8X0D/11NF	Replaces standard K(f) Test Port Connector with N(f)
S8X0D/31	GPS

- -
 - AC-DC
 -
 -
 - CD
 -
 - , NiMH
- K(m) - N(f)
12 Volt DC
()

5400 560

3000
Anritsu.

: +20 dBm

: 122

: 7.6 x 2.9 x 2.2 c

: 170 .

S8x0D



5400-71N50

Model	Frequency Range	Impedance	Attenuation	Connector	Accuracy
5400-71N50	0.001 to 3 GHz	50Ω	26 dB	N(m)	±0.2 dB, <1 GHz ±0.3 dB, <3 GHz
5400-71N75	0.001 to 3 GHz	75Ω	26 dB, <2 GHz 20 dB, <3 GHz	N(m)	±0.2 dB, <1 GHz ±0.5 dB, <3 GHz
560-7A50	0.01 to 18 GHz	50Ω	15 dB, <0.04 GHz 22 dB, <8 GHz 17 dB, <18 GHz	GPC-7	±0.5 dB, <18 GHz
560-7N50B	0.01 to 20 GHz	50Ω	15 dB, <0.04 GHz 22 dB, <8 GHz 17 dB, <18 GHz 14 dB, <20 GHz	N(m)	±0.5 dB, <18 GHz ±1.25 dB, <20 GHz
560-7S50B	0.01 to 20 GHz	50Ω	15 dB, <0.04 GHz 22 dB, <8 GHz 17 dB, <18 GHz 14 dB, <20 GHz	WSMA(m)	±0.5 dB, <18 GHz ±1.25 dB, <20 GHz
560-7S50-2	0.01 to 26.5 GHz	50Ω	15 dB, <0.04 GHz 22 dB, <8 GHz 17 dB, <18 GHz 14 dB, <26.5 GHz	WSMA(m)	±0.5 dB, <18 GHz ±1.25 dB, <26.5 GHz
560-7K50	0.01 to 40 GHz	50Ω	12 dB, <0.04 GHz 22 dB, <8 GHz 17 dB, <18 GHz 15 dB, <26.5 GHz 14 dB, <32 GHz 13 dB, <40 GHz	K(m)	±0.5 dB, <18 GHz ±1.25 dB, <26.5 GHz ±2.2 dB, <32 GHz ±2.5 dB, <40 GHz
560-7VA50	0.01 to 50 GHz	50Ω	12 dB, <0.04 GHz 19 dB, <20 GHz 15 dB, <40 GHz 10 dB, <50 GHz	V(m)	±0.8 dB, <20 GHz ±2.5 dB, <40 GHz ±3.0 dB, <50 GHz

xx ()

- 23 = 1/8 Offset Short
- 24 = 3/8 Offset Short
- 26 = Precision Load

: 23UA90, 24UA90, 26UA90 35UM90N



xxUM40	3.30 to 4.90 GHz	WR229, WG11A	PDR40
xxUM48	3.95 to 5.85 GHz	WR187, WG12	CAR48, PAR48, UAR48, PDR48
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
xxUM140	12.40 to 18.00 GHz	WR62, WG18	CBR140, UBR140, PBR140, PDR140
xxUM220	17.00 to 26.50 GHz	WR42, WG20	CBR220, UBR220, PBR220, PDR220
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

35UM40N	3.30 to 4.90 GHz	WR229, WG11A	PDR40
35UM48N	3.95 to 5.85 GHz	WR187, WG12	CAR48, PAR48, UAR48, PDR48
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
35UM140N	12.40 to 18.00 GHz	WR62, WG18	CBR140, UBR140, PBR140, PDR140
35UM220K	17.00 to 26.50 GHz	WR42, WG20	CBR220, UBR220, PBR220, PDR220
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

Anritsu.

K

- 22K50 Precision K(m) Short/Open, 40 GHz
- 22KF50 Precision K(f) Short/Open, 40 GHz
- 28K50 Precision Termination, DC to 40 GHz, 50Ω, K(m)
- 28KF50 Precision Termination, DC to 40 GHz, 50Ω, K(f)
- 15KKF50-1.5A Armored Test Port Cable, 1.5 meter K(m) to K(f) 20 GHz
- 15RKKF50-1.5A Ruggedized Armored Test Port Cable, 1.5 meter K(m) to K(f) 20 GHz

N-

- 22N50 Precision N(m) Short/Open, 18 GHz
- 22NF50 Precision N(f) Short/Open, 18 GHz
- 28N50-2 Precision Termination, DC to 18 GHz, 50Ω, N(m)
- 28NF50-2 Precision Termination, DC to 18 GHz, 50Ω, N(f)
- 15NNF50-1.5B Armored Test Port Cable, 1.5 meter N(m) to N(f) 18 GHz
- 42N50-20 5W Attenuator, N(m) to N(f), 18 GHz

TNC

- 1015-54 TNC Termination (f), 18 GHz
- 1015-55 TNC Termination (m), 18 GHz
- 1091-55 TNC Open (f), 18 GHz
- 1091-53 TNC Open (m), 18 GHz
- 1091-56 TNC Short (f), 18 GHz
- 1091-54 TNC Short (m), 18 GHz

- 34RKNF50 Precision Adapter, Ruggedized K(m) to N(f)
- 34NN50A Precision N(m) to N(m) Adapter, 18 GHz
- 34NFNF50 Precision N(f) to N(f) Adapter, 18 GHz
- K220B Precision Adapter, K(m) to K(m), 40 GHz
- K222B Precision Adapter, K(f) to K(f), 40 GHz

- 1091-26 Adapter, N(m)-SMA(m), DC to 18 GHz, 50Ω
- 1091-27 Adapter, N(m)-SMA(f), DC to 18 GHz, 50Ω
- 1091-80 Adapter, N(f)-SMA(m), DC to 18 GHz, 50Ω
- 1091-81 Adapter, N(f)-SMA(f), DC to 18 GHz, 50Ω

- 513-62 Adapter, TNC(f) to N(f), 18 GHz, 50Ω
- 1091-315 Adapter, TNC(m) to N(f), 18 GHz, 50Ω
- 1091-324 Adapter, TNC(f) to N(m), 18 GHz, 50Ω
- 1091-325 Adapter, TNC(m) to N(m), 18 GHz, 50Ω
- 1091-317 Adapter, TNC(m) to SMA(f), 18 GHz, 50Ω
- 1091-318 Adapter, TNC(m) to SMA(m), 18 GHz, 50Ω
- 1091-323 Adapter, TNC(f) to TNC(f), 18 GHz, 50Ω
- 1091-326 Adapter, TNC(m) to TNC(m), 18 GHz, 50Ω

- 10680-00001 Site Master S810D/S820D User's Guide
- 2300-347 Anritsu Handheld Software Tools
- 48258 Soft Carrying Case
- 633-27 Rechargeable NiMH Battery
- 34RKN50 Precision Adapter, Ruggedized K(m) to N(f)
- 40-168 AC/DC Adapter
- 806-62 Automotive Cigarette Lighter/12 Volt DC Adapter
- 800-441 Serial Interface (Null Modem) Cable



48258

- 10680-00001 Site Master S810D/S820D User's Guide
- 10680-00002 Site Master S810D/S820D Programming Manual
- 10680-00003 Site Master S810D/S820D Maintenance Manual

- 11410-00214 Reflectometer Measurements - Revisited
- 11410-00206 Time Domain
- 11410-00270 What is Your Measurement Accuracy?

- 551-1691 USB to RS232 Adapter Cable
- 760-235 Transit Case for Microwave Site Master
- 800-109 Detector Extender Cable, 7.6m
- 2000-1029 Battery Charger (External)
- 2000-1410 Magnet Mount GPS Antenna with 15 ft. cable



633-27

- 2000-1214 HP DeskJet Printer, Model 450: Includes printer cable, 2000-1216 black print cartridge, and U.S. power cord. Also includes 2000-753 serial-to-parallel Centronics converter cable and 1091-310 Centronics-to DB25 adapter. Rechargeable battery is optional and is not included.
- 2000-753 Null Modem Serial-to-Parallel Centronics Converter Cable
- 1091-310 Adapter 36-pin Centronics female-to-DB25 female
- 2000-1216 Black Print Cartridge
- 2000-663 Power Cable (Europe) for DeskJet Printer
- 2000-664 Power Cable (Australia) for DeskJet Printer
- 2000-666 Power Cable (Japan) for DeskJet Printer
- 2000-667 Power Cable (S. Africa) for DeskJet Printer
- 2000-1217 Rechargeable Battery for DeskJet Printer, Model 450
- 2000-1218 Power Cable (U.K.) for DeskJet Printer

Military photos provided by the U.S. Department of Defense.



SALES CENTERS:

United States (800) ANRITSU Europe 44 (0) 1582-433433
 Canada (800) ANRITSU Japan 81 (46) 223-1111
 South America 55 (21) 2527-6922 Asia-Pacific (852) 2301-4980

Microwave Measurement Division
 490 Jarvis Drive, Morgan Hill, CA 95037-2809
<http://www.us.anritsu.com>



Discover What's Possible®



© Anritsu May 2005. All trademarks are registered trademarks of their respective companies. Data subject to change without notice. For most recent specifications visit www.us.anritsu.com.