HANDHELD SPECTRUM ANALYZER MS2711

100 kHz to 3.0 GHz



Designed for field environments and applications requiring mobility, the MS2711 features easy-to-use, accurate performance in a light weight (4.0 lbs, 1.8 kg), battery operated unit covering the 100 kHz to 3000 MHz frequency range. Ideal for field/mobility use, the MS2711 satisfies spectrum analysis needs in cellular, DCS/PCS, paging/messaging, WLAN/WPBX, and many other communications system applications - anywhere, anytime.

Utilizing an advanced synthesizer-based design, the MS2711 delivers accurate, reliable, and repeatable measurements - anywhere, everytime. A broad range of functions, coupled with resolution bandwidths ranging from 10 kHz to 1 MHz, simplifies identification of interfering signals in modern wireless systems. Rugged packaging keeps the MS2711 operating in harsh environments and allows it to withstand rough handling.

The MS2711 simplifies the process of making spectrum analyzer measurements and interpreting the results. As a result, it simplifies field engineers' and technicians' jobs of going site-to-site identifying, recording, and solving problems without sacrificing measurement accuracy. Users are able to store ten test setups along with 200 measurement traces internally in the unit's non-volatile memory. Stored data can be easily downloaded to a personal computer (PC) or a printer via an RS-232 serial cable for further analysis. A notebook computer can be used with the RS-232 interface for automated control and data collection in the field. Additionally, a modem can be used for remote operation.

Reporting software for PC use is Window 95/98, NT Workstation compatible and supports long file names for descriptive data labeling. The software can display an unlimited number of data traces for

comparison to historical performance. Data traces can be easily and quickly downloaded from the MS2711 to the PC database with a single menu selection.

A number of options are available that expand the MS2711's capabilities, including an internal tracking generator (option 20) and an internal RF Power monitor (option 5).

Features

- Lightweight (4.0 lbs)
- Synthesized-based performance
- 'Full range of marker capabilities including peak, center, and delta
- Limit lines for quick, simple pass/fail measurements

Rugged, reliable packaging

Battery operated design

- -2.5 hours of continuous operation
- Built-in energy conservation that extends battery life beyond an eight-hour workday
- Operation using a 12.5 Vdc source AC-DC adapter or automotive cigarette lighter adapter, which simultaneously charges the batterv
- Field replaceable battery

Data storage and memory

- -Store up to ten test setups and 200 measurement traces in nonvolatile memory
- Stored data is easily and quickly downloaded to a personal computer (PC) or printer
- **-**PowerfuÌ trace management
- Automatically date/time stamped
- Alphanumeric labeling
- PC reporting software
- -Windows 95/98, NT Workstation compatible
- -Supports long file names for descriptive labeling
- Can display an unlimited number of traces for comparison to historical performance

Large, high resolution VGA display (640x480)

- Power monitor option
- --- Direct printer control via RS232 serial port

Applications

Convenient operating procedures, high sensitivity, and excellent repeatability enable the MS2711 to pinpoint the smallest system performance degradation and allow for easy verification of system compliance. Typical applications include

- __Transmitter Spectrum Analysis occupied bandwidth, power, modulation, and antenna gain/isolation measurements
 - Receive Signal Analysis location and identification of receive inband interference and out-of-band spurious signals
 - Modulation identification, modulation depth, deviation, and spectral
- Signal Strength Mapping to determine the most suitable location for antennas, base stations, and repeaters
- Stimulus-response measurements for component test



Specifications

Except where noted otherwise, specified values are obtained after warming up the Anritsu MS2711 Handheld Spectrum Analyzer for 5 minutes at a constant ambient temperature. The typical values are given for reference and are not guaranteed.

Frequency	Frequency range	100 kHz to 3.0 GHz
	Frequency reference	Aging: ±1 ppm/yr Accuracy: ±2 ppm
	Frequency span	100 kHz to 3 GHz plus zero span
	Sweep time	0.5 sec.
	Resolution bandwidth (–3dB width)	10 kHz, 30 kHz, 100 kHz, 1 MHz, ±20%
	Video bandwidth (Range –3dB)	3 kHz, 10 kHz, 30 kHz and 300 kHz
	SSB Phase Noise @30 kHz Offset	≤–74 dBc/Hz
	Spurious responses	Input related: ≤-45 dBc
	Residual responses	≤ – 80 dBm
	Measurement range	-90 dBm to +20 dBm
	Dynamic range	≥60 dB
Amplitude	Maximum safe input level	+20 dBm max. measurable safe input +50 Vdc
	Displayed average noise level	≤–90 dBm
	Display range	2 to 15 dB/div. In 1 dB steps Ten divisions displayed
	RF input VSWR	2.0:1
	Amplitude accuracy	±1.5 dB
	Total level accuracy	±2 dB
General	Internal trace memory	200 maximum
	Instrument configuration	10 setup locations
	HS-232	9 pin D-sub, three wire serial
	Electromagnetic compatibility	Meets European community requirements for CE marking
	Temperature	Operating: 0°C to 50°C, humidity 85% or less Non-operating: -20°C to +75°C
	Power supply	External DC Input: +12.5 to +15 volts dc, 1100 mA max
	Size	25.4 cm (W) 17.8 cm (H) x 6.10 cm (D) 10.0 in (W) x 7.0 in (H) x 2.4 in (D)
	Weight	1.82 kg (4 lbs.) includes battery

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

MS2711 HandHeld Spectrum Analyzer: 100 kHz to 300 Standard Accessories User's Guide Soft Carrying Case AC – DC Adapter Automotive Cigarette Lighter/12 Volt DC Adapter One Year Warranty CD ROM containing Software Management To Serial Interface Cable Option 20 5400-71N50 42N50A-30 Precision Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to N(m), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(m), 3.5 GHz 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), 3.5 GHz 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), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz	
User's Guide Soft Carrying Case AC — DC Adapter Automotive Cigarette Lighter/12 Volt DC Adapter One Year Warranty CD ROM containing Software Management To Serial Interface Cable Option 1 Option 20 5400-71N50 42N50A-30 30 dB, 50 Watt, Bi-directional, DC to 18 GHz, N(m) to N(f) Attenuator Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) Tecision Adapter, DC to 18 GHz, 50 Ohm, N(m) Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz 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), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	0 MHz
User's Guide Soft Carrying Case AC — DC Adapter Automotive Cigarette Lighter/12 Volt DC Adapter One Year Warranty CD ROM containing Software Management To Serial Interface Cable Option 1 Option 20 5400-71N50 42N50A-30 30 dB, 50 Watt, Bi-directional, DC to 18 GHz, N(m) to N(f) Attenuator Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) Tecision Adapter, DC to 18 GHz, 50 Ohm, N(m) Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz 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), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
Soft Carrying Case AC — DC Adapter Automotive Cigarette Lighter/12 Volt DC Adapter Automotive Cigarette Lighter/12 Volt DC Adapter One Year Warranty CD ROM containing Software Management To Serial Interface Cable Option 2 5400-71N50 42N50A-30 42N50A-30 42N50A-30 42N50A-30 42N50A-30 42N50A-30 43H5 So Watt, Bi-directional, DC to 18 GHz, N(m) to N(f) Attenuator Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) Testion Adapter, DC to 18 GHz, 50 Ohm, N(m) Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz 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), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
Automotive Cigarette Lighter/12 Volt DC Adapter One Year Warranty CD ROM containing Software Management To Serial Interface Cable Option 3 Option 4 Option 5 Option 20 5400-71N50 42N50A-30 1091-26 1091-27 1091-27 Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA S4NN50A 34NN50A 34NN50A 15NN50-1.5A 15NN50-3.0A 15NN50-3.0A 15NN50-5.0A 15NN50-5.0A 15NNF50-1.5A 15NNF50-3.0A	
One Year Warranty CD ROM containing Software Management To Serial Interface Cable Option 5 Option 20 5400-71N50 42N50A-30 1091-26 1091-27 1091-172 34NN50A 34NFNF50A 15NN50-1.5A 15NN50-5.0A 15NNF50-1.5A 15NNF50-3.0A 15NNF50-5.0A	
CD ROM containing Software Management To Serial Interface Cable Option 2 50ption 2 5400-71N50 42N50A-30 091-26 1091-27 1091-27 34NN50A 34NFNF50A 15NN50-1.5A 15NN50-5.0A 15NNF50-1.5A 15NNF50-3.0A 15NNF50-5.0A	er
Option 5 Option 20 5400-71N50 42N50A-30 1091-27 34NN50A 34NFNF50A 15NN50-3.0A 15NNF50-1.5A 15NNF50-3.0A 15NNF50-5.0A	_
Option 3 Accessories RF Watt Meter Power Monitor (RF Detector not Tracking Generator, 50 Ohm RF Detector, N(m), 50 Ohm, 1 to 3000 MHz 30 dB, 50 Watt, Bi-directional, DC to 18 GHz, N(m) to N(f) Attenuator Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 13 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 13 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 13 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 13 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to N(m), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz 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), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	ols
Option 5 Option 20 5400-71N50 42N50A-30 1091-26 1091-27 1091-172 34NN50A 34NFNF50A 15NN50-3.0A 15NN50-5.0A 15NNF50-1.5A 15NNF50-3.0A 15NNF50-5.0A	
Option 20 5400-71N50 42N50A-30 MRF Detector, N(m), 50 Ohm, 1 to 3000 MHz 30 dB, 50 Watt, Bi-directional, DC to 18 GHz, N(m) to N(f) Attenuator Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) Precision Adapter, DC to 18 GHz, 50 Ohm, N(m) Precision Adapter, DC to 18 GHz, 50 Ohm, N(m) Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz 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), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
5400-71N50 42N50A-30 RF Detector, N(m), 50 Ohm, 1 to 3000 MHz 30 dB, 50 Watt, Bi-directional, DC to 18 GHz, N(m) to N(f) Attenuator Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to BMC 34NN50A 34NFNF50A 15NN50-1.5A Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz 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), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	included)
42N50A-30 30 dB, 50 Watt, Bi-directional, DC to 18 GHz, N(m) to N(f) Attenuator 1091-26 1091-27 1091-172 Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to SMA 34NN50A 34NN50A 35NN50-1.5A 15NN50-3.0A 15NN50-3.0A 15NN50-5.0A 15NN50-5.0A 15NNF50-1.5A 15NNF50-1.5A 15NNF50-3.0A	
N(m) to N(f) Attenuator Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to BNA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to BNA Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to BNA Adapter, DC to 18 GHz, 50 Ohm, N(n Precision Adapter, DC to 18 GHz, 50 Ohm, N(n Precision Adapter, DC to 18 GHz, 50 Ohm, N(n Precision Adapter, DC to 18 GHz, 50 Ohm, N(n Precision Adapter, DC to 18 GHz, 50 Ohm, N(n Precision Adapter, DC to 18 GHz, 50 Ohm, N(n Precision Adapter, DC to 18 GHz, 50 Ohm, N(n Precision Adapter, DC to 18 GHz, 50 Ohm, N(n N(m) to N(m), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(n), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
1091-26 1091-27 34NN50A 34NFNF50A 15NN50-3.0A 15NN50-1.5A 15NNF50-1.5A 15NNF50-3.0A	
1091-27 1091-172 Adapter, DC to 18 GHz, 50 Ohm, N(m) to SMA 24NNN50A 15NN50-1.5A 15NN50-3.0A 15NN50-5.0A 15NNF50-3.0A 15NNF50-5.0A	\/ma\
Adapter, DC to 1.3 GHz, 50 Ohm, N(m) to BN0 Precision Adapter, DC to 18 GHz, 50 Ohm, N(m) Test port cable armored, 1.5 meter, N(m) to N(m), 3.5 GHz 15NN50-3.0A 15NN50-5.0A 15NNF50-1.5A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A	
34NN50A 34NNFNF50A 34NNFNF50A 15NN50-1.5A 15NN50-3.0A 15NN50-5.0A 15NN50-5.0A 15NNF50-1.5A 15NNF50-3.0A	
34NFNF50A 15NN50-1.5A 15NN50-3.0A 15NN50-5.0A 15NN50-5.0A 15NNF50-1.5A 15NNF50-1.5A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-3.0A 15NNF50-5.0A	
15NN50-1.5A 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), 3.5 GHz 15NNF50-1.5A Test port cable armored, 5.0 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
N(m) to N(m), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(m), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	.,
15NN50-3.0A Test port cable armored, 3.0 meter, N(m) to N(m), 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 Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
15NN50-5.0A 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 15NNF50-3.0A Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz 15NNF50-5.0A Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
N(m) to N(m), 3.5 GHz Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
15NNF50-1.5A Test port cable armored, 1.5 meter, N(m) to N(f), 3.5 GHz 15NNF50-3.0A Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz 15NNF50-5.0A Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
N(m) to N(f), 3.5 GHz 15NNF50-3.0A 15NNF50-5.0A Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
15NNF50-3.0A Test port cable armored, 3.0 meter, N(m) to N(f), 3.5 GHz 15NNF50-5.0A Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
N(m) to N(f), 3.5 GHz Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
15NNF50-5.0A Test port cable armored, 5.0 meter, N(m) to N(f), 3.5 GHz	
N(m) to N(f), 3.5 GHz	
N(m) to 7/16 DIN(m), 3.5 GHz	
15NDF50-1.5A Test port cable armored, 1.5 meter,	
N(m) to 7/16 DIN(f), 3.5 GHz	
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.)	
510-90 Adapter 7/16 (f) to N(m), 3.5 GHz	
510-96 Adapter 7/16 DIN (m) to 7/16 DIN (m), 3.5 GH:	Z
510-97 Adapter 7/16 DIN (f) to 7/16 DIN (f), 3.5 GHz 48258 Spare soft carrying case	
48258 Spare soft carrying case 40-115 Spare AC/DC adapter	
806-62 Spare automotive cigarette lighter/12 Volt DC a	adanter
800-441 Spare serial interface cable	adaptor
760-215A Transit case for Anritsu HandHeld Spectrum A	nalvzer
2300-347 Anritsu HandHeld Spectrum Analyzer Software	
10580-0026 Anritsu HHSA User's Guide, Model MS2711A	
10580-0027 Anritsu HHSA Maintenance Manual	
10580-00036 Anritsu HHSA Programming Manual	
633-27 Rechargeable battery, NiMH	
2000-1029 Battery charger, NiMH with universal power su	
2000-1030 Portable antenna, 50 Ohm, SMA (m) 1.71-1.88	
2000-1031 Portable antenna, 50 Ohm, SMA (m) 1.85-1.99	
2000-1032 Portable antenna, 50 Ohm, SMA (m) 12.4-2.5 2000-1034 Portable antenna, 50 Ohm, SMA (f) 806-869 M	
2000-1034 Portable antenna, 50 Ohm, SMA (i) 800-869 W	

Model/Order No.	Name
	Printers
2000-766	HP DeskJet printer
	Includes: interface cable, black print cartridge, and US
	power cable
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
2000-664	Power cable (Australia) for DeskJet printer
2000-665	Power cable (UK) for DeskJet printer
2000-667	Power cable (So. Africa) for DeskJet printer
2000-754	Sieko DPU-414-30B thermal printer (120 VAC)
	Includes: internal battery, thermal printer paper, serial ca-
	ble, US power cable
2000-761	Sieko DPU-414-30B thermal printer (220 VAC)
	Includes: internal battery, thermal printer paper, serial
	cable, Euro power cable
2000-1012	Serial 9-pin (male) for 9-pin (female) cable
2000-755	Five (5) rolls of thermal paper