

RF & Microwave Test Equipment

Section Index

RF & Microwave Test Equipment

RF Analysers & Meters 14

- Spectrum Analysers 14
- E44xx Spectrum Analysers 15
- Spectrum Analyser Accessories 16
- Vector Network Analysers 17
- Vector Network Analyser Accessories 17
- Scalar Network Analysers 18
- Scalar Network Analyser Accessories 19
- RF Power Meters 20
- Power Meter Elements for
 Bird Power Meters 21
- Element Sets for BIRD 4410A 22
- RF Voltmeters 22
- Distortion Meters 22
- Noise Figure Meters 22

RF Generators 23

- Digital Modulation Signal Generators 23
- RF Signal Generators 24
- RF Sweep Generators 25
- RF Amplifiers 25

Ancillary RF Test Equipment 26

- RF Attenuators – Fixed 26
- RF Attenuators – Variable 27
- RF Terminations 28
- RF Detectors & Splitters 28
- RF Couplers 28
- RF Cables & Adaptors 29
- Other RF Accessories 30



Oltre 3.000
differenti tipi di
prodotti

RF Analysers & Meters

Spectrum Analysers

	Frequency Range	Resolution Bandwidth	Measurement Range	Sweep Time	Tracking Generator IEEE 488 RS232 Parallel	Other Information See notes	Dimensions (cm) H x W x D	Weight (kg)
Advantest								
① R3267-M1	100Hz to 8GHz	10Hz to 10Hz	-130 to +30dBm	1µs to 1000s	• •	Options: 01, 62, 63, 66	18 x 35 x 42	18
① R3267-M2	100Hz to 8GHz	10Hz to 10Hz	-130 to +30dBm	1µs to 1000s	• •	Options: 01, 61, 62, 63, 65	18 x 35 x 42	18
② U3641-020-026	9kHz to 3GHz	100Hz to 3MHz	-117 to +30dBm	50ms to 1ks	• •	Options: 020, 026	15 x 29 x 33	8
Agilent Technologies								
③ 35670A-M3	48mHz to 102.4kHz		3.99mV to 31.7V		• •	Options: AY6, 1D2, UFC	19 x 34 x 47	15
④ 8560E-M3	30 Hz to 2.9 GHz	1Hz to 2MHz	151dBm to +30dBm	50µs to 6000s	•	Options: 007	16 x 33 x 43	20
④ 8563EC-M1	30Hz to 26.5GHz	1Hz to 2MHz	-149 to +30dBm	50µs to 100ks	•	Options: 006	16 x 33 x 43	20
④ 8563EC-M2	9kHz to 26.5GHz	1Hz to 2MHz	-149 to +30dBm	50µs to 100ks	•		16 x 33 x 43	20
④ 8563E-M1	9kHz to 26.5GHz	1Hz to 2MHz	-149 to +30dBm	50µs to 100ks	•	Options: 005	16 x 33 x 43	20
④ 8563E-M3	9kHz to 26.5GHz	1Hz to 2MHz	-149 to +30dBm	50µs to 100ks	•	Options: 005, 007, 008	16 x 33 x 43	20
④ 8565E-M2	30Hz to 50GHz	1Hz to 2MHz	-147 to +30dBm	50µs to 100ks	•	Options: 001, 005, 006, 007, 008, 042	16 x 33 x 43	20
⑤ 8594E-M8	9kHz to 2.9GHz	30Hz to 3MHz	-127 to +30dBm	20ms to 100s	• •	Options: 041, 101, 105	16 x 33 x 43	16
Anritsu								
MS2601B	100Hz to 2.2GHz	30Hz to 1MHz	-130 to +20dBm	50ms to 100s	• •	Plotting to X-Y plotter or via IEEE 488	18 x 28 x 46	19
⑥ MS2665C-M1	9kHz to 21.2GHz	30Hz to 3MHz	-115 to +30dBm	20ms to 1000s	•	Options: 02	18 x 32 x 35	13
⑥ MS2665C-M2	9kHz to 21.2GHz	30Hz to 3MHz	-115 to +30dBm	20ms to 1000s	•	Options: 02, 04, 06	18 x 32 x 35	13
MS2711	100kHz to 3.0GHz	10kHz to 1MHz	-90 to +20dBm	0.5s	•	Includes Cigar Lighter/12V DC adaptor	17 x 27 x 6	2
MS2711B-M1	100kHz to 3.0GHz	10kHz to 1MHz	-95 to +20dBm	0.5s	•		16 x 27 x 6	2
MS2711B-M2	100kHz to 3.0GHz	10kHz to 1MHz	-95 to +20dBm	0.5s	•	Options: 05: RF Power Monitor; 5400-71N50 RF Detector	17 x 27 x 6	2
MS2711B-M3	100kHz to 3.0GHz	10kHz to 1MHz	-115 to +20dBm	0.5s	•	Options: 08: Pre-amplifier (1MHz to 3GHz)	18 x 27 x 6	2
MS2711B-M4	100kHz to 3.0GHz	10kHz to 1MHz	-95 to +20dBm	0.5s	• •	Options: 20: Tracking Generator (10MHz to 3GHz)	19 x 27 x 6	3
MS2711D	100kHz to 3.0GHz	100Hz to 1MHz	-135 to +20dBm	50µs to 20s	• •		18 x 26 x 6	2
Rohde & Schwarz								
⑦ FSQ8-M2	20Hz to 8GHz	10Hz to 20MHz	-145 to +20dBm	1µs to 16ks	• • •	Options: FSU-B4, B9, B25, FS-K5, K72, K74, FSQ-B512, B71, K70, U2, PSP-Z2	19 x 44 x 46	16

- ① Advantest R3267 Options**
 01: Digital Modulation Analysis; 61: cdmaOne Analysis s/w;
 62: W-CDMA Analysis s/w; 63: GSM900/1800/1900 & DECT Analysis s/w;
 65: cdma2000 Analysis s/w
 66: Bluetooth Analysis s/w
- ② Advantest U3641 Options**
 Opt 020: Improved Frequency Reference
 Opt 026: 100/300Hz Resolution Bandwidths
- ③ Agilent Technologies 35670A Options**
 AY6: Add 2 input channels (total = 4)
 1D2: Swept sine measurements
 UFC: Add 8Mb RAM
- ④ Agilent Technologies 856x Options**
 Opt 001: Second IF Output
 Opt 005: Alternate Sweep Output
 Opt 006: 30Hz Low End Frequency
 Opt 007: Digitised Fast Time Domain Sweeps
 Opt 008: Add Signal Identification
 Opt 042: Soft Carrying Muff
- ⑤ Agilent Technologies 859x Options**
 Opt 041: HP-IB interface & parallel interface
 Opt 101: Fast Time Domain Sweeps and Analogue Display
 Opt 105: Time Gated Spectrum Analysis

- ⑥ Anritsu MS2665c Options**
 Opt 02: Narrow resolution bandwidths
 Opt 04: High speed time domain sweep
 Opt 06: Trigger/gate circuit
- ⑦ Rohde & Schwarz FSQ8 Options**
 FSU-B4: Highly Accurate Reference Frequency
 FSU-B9: Tracking Generator, 9KHz-3.6GHz
 FSU-B25: Electronic Attenuator 0-30dB & 20dB Pre-amplifier
 FS-K5: GSM-Mobile Station Test Application Firmware
 FS-K72: 3GPP-FDD BTS Transmitter Test Application Firmware
 FS-K74: 3GPP HSDPA Base Station Test Application Firmware
 FSQ-B512: CPU RAM upgrade to 512MB
 FSQ-B71: Analogue Baseband Inputs
 FSQ-K70: Vector Signal Analysis
 FSQ-U2: Windows-XP upgrade kit
 PSP-Z2: Compact Keyboard with integrated trackball

RF Analysers & Meters

E44xx Spectrum Analysers

	Frequency Range	Resolution Bandwidth	Measurement Range	Sweep Time	Tracking Generator IEEE 488 RS232 Parallel	Other Information See notes	Dimensions (cm) H x W x D	Weight (kg)
Agilent Technologies								
E4401B-M1	9kHz to 1.5GHz	10Hz to 5MHz	-153dBm to +30dBm	10µs to 4000s	• •	Options: A4H, 1D5, 1DR, 1DS	23 x 41 x 51	13
E4402B-M1	9kHz to 3GHz	10Hz to 5MHz	-153dBm to +30dBm	50ns to 4000s	• •	Options: A4H, 1D5, 1DR, 1DS, 1D6, AYX	23 x 41 x 51	16
E4402B-M2	9kHz to 3GHz	10Hz to 5MHz	-153dBm to +30dBm	50ns to 4000s	• •	Options: A4H, 1D5, 1DR, 1DS, 1D6, AYX, BAA, UK9	23 x 41 x 51	16
E4402B-M3	9kHz to 3GHz	10Hz to 5MHz	-153dBm to +30dBm	50ns to 4000s	• •	Options: 1DN, 1DR, 1DS, 1D5, 1D6, AYX, A4H, BAA, UK9	23 x 41 x 51	16
E4402B-M4	9kHz to 3GHz	1kHz to 5MHz	-116dBm to +30dBm	10µs to 4000s	• •	Options: A4H	23 x 41 x 51	16
E4402B-M5	9kHz to 3GHz	10Hz to 5MHz	-153dBm to +30dBm	10µs to 4000s	• •	Options: A4H, B75 (1D5, 1DR, 1DS), B72, 226	22 x 41 x 52	16
E4402B-M6	9kHz to 3GHz	10Hz to 5MHz	-153dBm to +30dBm	10µs to 4000s	• •	Options: A4H, B75 (1D5, 1DR, 1DS)	22 x 41 x 52	16
E4402B-M7	100Hz to 3GHz	10Hz to 5MHz	-135dBm to +30dBm	10µs to 4000s	• •	Options: A4H, 1DR, 1DN, UKB	22 x 41 x 52	16
E4403B-M1	9kHz to 3GHz	1kHz to 5MHz	-117dBm to +30dBm	5ms to 2000s	•	Options: 1DN, UK9	22 x 41 x 52	15
E4404B-M2	9kHz to 6.7GHz	10Hz to 5MHz	-131dBm to +30dBm	50ns to 4000s	• •	Options: 1D5, 1D6, 1DR, A4H, AYX, BAA, UK9	22 x 41 x 52	17
E4405B-M1	9kHz to 13.2GHz	10Hz to 5MHz	-137dBm to +30dBm	50ns to 4000s	• •	Options: A4H, B75 (1D5, 1DR, 1DS), 1D6, AYX	22 x 41 x 52	17
E4405B-M2	9kHz to 13.2GHz	10Hz to 5MHz	-137dBm to +30dBm	25ns to 4000s	• •	Options: 227, A4H, A4J, B74 (1D5, 1D6, 1DR, 1DS, B7D, B7E), BAA, BAH	22 x 41 x 52	17
E4405B-M3	9kHz to 13.2GHz	10Hz to 5MHz	-137dBm to +30dBm	25ns to 4000s	• •	Options: A4H, B74 (1D5, 1D6, 1DR, 1DS, B7D, B7E)	22 x 41 x 52	17
E4407B-M1	9kHz to 26.5GHz	10Hz to 5MHz	-132dBm to +30dBm	50ns to 4000s	• •	Options: A4H, B75 (1D5, 1DR, 1DS), 1D6, AYX	22 x 41 x 51	17
E4407B-M2	9kHz to 26.5GHz	10Hz to 5MHz	-132dBm to +30dBm	10µs to 4000s	• •	Options: A4H, B75 (1D5, 1DR, 1DS)	22 x 41 x 52	17
E4407B-M4	9kHz to 26.5GHz	10Hz to 5MHz	-132dBm to +30dBm	10µs to 4000s	• •	Options: A4H, B75 (1D5, 1DR, 1DS), 1D6, AYX, A4H, BAA, UK9	22 x 41 x 52	17
E4407B-M5	9kHz to 26.5GHz	10Hz to 5MHz	-125dBm to +30dBm	10µs to 4000s	• •	Options: 1D5, 1DR, A4J, AYZ, B72	22 x 41 x 52	17
E4407B-M6	9kHz to 26.5GHz	10Hz to 5MHz	-132dBm to +30dBm	25ns to 4000s	• •	Options: A4H, B74 (1D6, 1D5, 1DR, 1DS, B7D, B7E), BAB, BAH	22 x 41 x 52	17
E4407B-M7	9kHz to 26.5GHz	1kHz to 5MHz	-106dBm to +30dBm	10µs to 4000s	• •	Options: A4H	22 x 41 x 52	17
E4407B-M8	9kHz to 26.5GHz	1kHz to 5MHz	-106dBm to +30dBm	10µs to 4000s	• •	Options: A4H, B75 (1D5, 1DR, 1DS), 1D6, AYX	22 x 41 x 52	17
E4411B	9kHz to 1.5GHz	1kHz to 3MHz	-120dBm to +30dBm	5ms to 2000s	• •		22 x 41 x 52	12
E4411B-M1	9kHz to 1.5GHz	1kHz to 3MHz	-120dBm to +30dBm	5ms to 2000s	• •	Options: 1AX, A5D, B70	23 x 41 x 51	13
E4440A-M1	3Hz to 26.5GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 1DS, 202, B78, B7J, BAC, BAE, BAF	18 x 43 x 49	23
E4440A-M2	3Hz to 26.5GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 1DS, 226, B78, B7J, BAC, BAF	18 x 43 x 49	23
E4440A-M3	3Hz to 26.5GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: B7J	18 x 43 x 49	23
E4440A-M6	3Hz to 26.5GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 226	18 x 43 x 49	23
E4440A-M8	3Hz to 26.5GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 1DS, 226	18 x 43 x 49	23
E4443A-M1	3Hz to 6.7GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 1DS	18 x 43 x 49	23
E4445A-M1	3Hz to 13.2GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: B7J	18 x 43 x 49	23
E4446A-M1	3Hz to 44GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 1DS, 226	18 x 43 x 49	24
E4448A-M1	3Hz to 50GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 1DS, 226	18 x 43 x 49	24
E4448A-M2	3Hz to 50GHz	1Hz to 8MHz	-151dBm to +30dBm	1µs to 6000s	• • •	Options: 1DS, 202, 204, 226, B78, B7J, BAC, BAE, BAF, H70	18 x 43 x 49	24

- ① Agilent Technologies E44xx Options**
 Opt 1AX: RS-232/Centronics interface
 Opt 1D5: High Stability
 Opt 1D6: Time-gated spectrum analysis
 Opt 1DN: Tracking Generator
 Opt 1DR: Narrow resolution bandwidths
 Opt 1DS: Pre-amplifier
 Opt 202: GSM Measurement Personality with EDGE
 Opt 226: Phase Noise Measurement Personality
 Opt 227: Cable TV Measurement Personality
 Opt A4H: HP-IB/Centronics interface
 Opt A4J: IF, sweep and video ports
 Opt A5D: 12Vdc power lead
 Opt AK9: Front panel cover
 Opt AYX: Fast time-domain sweep

- Opt AYZ: External mixing
 Opt B70: Benchlink Software
 Opt B72: Increase memory to 16Mb
 Opt B74: RF and Digital Communications hardware bundle (opts 1D5,1D6,1DR,1DS,B7D,B7E)
 Opt B78: CDMA2000 measurement personality
 Opt B7D: Digital signal processing and fast ADC
 Opt B7E: RF communications Hardware
 Opt B7J: Digital Demodulation Hardware
 Opt BAA: FM Demodulation
 Opt BAC: cdmaOne Measurement Personality
 Opt BAE: NADC,PDC Measurement Personality
 Opt BAF: W-CDMA Measurement Personality
 Opt UK9: Front Panel Cover
 Opt UKB: Low Frequency Extension

Verificate...
 Network
 Analysers
 Pag 17

RF Analysers & Meters

Spectrum Analyser Accessories

	Type	Frequency Range	Maximum Input	Connector Type	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Aeroflex (IFR)							
2388	Active Probe	50kHz to 1.25GHz	10V pp		Takes DC from Spectrum analyser or 2388PSU power supply	7 x 24 x 19	<1
- 2388PSU	Power Supply				Power supply for 2x 2388 Active Probes; 240V AC input		
Agilent Technologies							
E1779A	Rechargeable Battery Pack				For powering Agilent (HP) ESA Family of Spectrum Analysers	22 x 38 x 7	5
11867A	Limiter	DC to 1.8GHz	100W peak	N Type	For over-power protection of sensitive inputs		
11945A	Close Field Probe Set	9kHz to 1.3GHz			Comprises 11940A, 11941A and 8447F-H64 preamplifier		
11940A	Close Field Probe	30MHz to 1.3GHz			Use with 8447F-H64 preamplifier		
11941A	Close Field Probe	9kHz to 30MHz			Use with 8447F-H64 preamplifier		
8447F-H64	RF Pre/Power Amplifier	9kHz to 1.3GHz			Use with 11940A and 11941A Close Field Probes	9 x 13 x 21	2
11970U	Mixer	40 to 60GHz	+20dBm	SMA F	IF DC to 1.3GHz; Local Oscillator range 3 to 6.1GHz, +14 to +16dBm; Use with 856x series		
85024A	High Frequency Probe	300kHz to 3GHz	1.5V peak		Takes DC from Spectrum analyser or 1122A power supply		
1122A	Probe Power Supply				Power supply for 4x Active Probes; 240V AC input		3
85671A	Phase Noise Utility				Use with suitable 856x series Spectrum Analysers for automatic Phase Noise measurements		
85712B	EMC Personality Card				Use with 859x Spectrum Analysers and 11945A Probe sets		
85712D	EMC Personality Card				Use with 859x Spectrum Analysers and 11945A Probe sets		
85715A	GSM Personality Card				Use with 859x Spectrum Analysers; Based on GSM 11.10 and 11.20 Recommendations		
85722A	DCS1800 Personality Card				Use with 859x Spectrum Analysers; Based on GSM 11.10 and 11.20 Recommendations		
85901A	Portable AC Power Source				Battery powered AC supply to allow field use of 859x Spectrum Analysers	13 x 34 x 46	14
Anritsu							
MA8611A	Close Field Probe Set	9kHz to 2.2GHz			For use with MS2601B and MS610C Spectrum Analysers		



**Verificate...
Spectrum
Analysers
Pag 14**

RF Analysers & Meters

Vector Network Analysers

	Ports	Frequency Range	Dynamic Range	Polar	Rectangular	Smith Chart	Source Output	3.5" Floppy	IEEE 488	Other Information See notes	Dimensions (cm) H x W x D	Weight (kg)
Agilent Technologies												
① E5062A-M1	2	300kHz to 3GHz	115dB	●	●	●	-45 to +10dBm	●	●	Options 016,250,810,820	24 x 43 x 39	14
② E5071A-M1	4	300kHz to 8.5GHz	125dB	●	●	●	-50 to 0dBm	●	●	Options 010, 016, 1E5, 414	24 x 43 x 50	18
E8356A	2	300kHz to 3GHz	115dB	●	●	●	-85 to +10dBm	●	●	Internal 6Gb HDD and 3.5" Floppy Drive	22 x 43 x 43	24
E8358A	2	300kHz to 9GHz	115dB	●	●	●	-85 to +10dBm	●	●	Internal 6Gb HDD and 3.5" Floppy Drive	22 x 43 x 43	24
③ E8358A-M1	2	300kHz to 9GHz	115dB	●	●	●	-85 to +10dBm	●	●	Internal 6Gb HDD and 3.5" Floppy Drive; Option: 015	22 x 43 x 43	24
④ N5230A-M1	2	10MHz to 20GHz	110dB	●	●	●	-30 to +20dBm	●	●	Option: 220	28 x 46 x 50	25
⑤ 8714C-M2	2	300kHz to 3GHz	100dB	●	●	●	-60 to +9dBm	●	●	Option: 1E1	18 x 43 x 52	21
⑤ 8714ES-M1	2	300kHz to 3GHz	100dB	●	●	●	-60 to +7dBm	●	●	Options: 100, 1CL	18 x 43 x 48	21
⑤ 8714ES-M2	2	300kHz to 3GHz	100dB	●	●	●	-60 to +7dBm	●	●		18 x 43 x 48	21
⑤ 8714ET-M2	3	300kHz to 3GHz	100dB	●	●	●	-60 to +7dBm	●	●	Options: 1E1, 100	19 x 43 x 52	21
⑥ 8720ES-M1	4	50MHz to 20.05GHz	100dB	●	●	●	-70 to +5dBm	●	●	Options: 010, 012, 089	22 x 43 x 46	25
⑦ 8753E	2	30kHz to 3GHz	110dB	●	●	●	-85 to +10dBm	●	●	Built in S-parameter test set (APC-7 test ports)	22 x 43 x 51	34
⑦ 8753E-M1	2	30kHz to 6GHz	110dB	●	●	●	-85 to +10dBm	●	●	Built-in S-Parameter test set; Options: 006, 010	22 x 43 x 51	34
⑦ 8753E-M3	2	30kHz to 6GHz	110dB	●	●	●	-85 to +10dBm	●	●	Built-in S-Parameter test set; Options: 006, 010, 1D5	22 x 43 x 51	34
⑦ 8753E-M5	2	30kHz to 3GHz	110dB	●	●	●	-85 to +10dBm	●	●	Built-in S-Parameter test set; Option: 010	22 x 43 x 51	34
⑦ 8753ES-M2	2	30kHz to 6GHz	110dB	●	●	●	-85 to +10dBm	●	●	Built-in S-Parameter test set; Options: 006, 010	22 x 43 x 51	34
⑦ 8753ES-M4	2	30kHz to 6GHz	110dB	●	●	●	-85 to +10dBm	●	●	Built in S-parameter test set; Options: 006, 010, 014	22 x 43 x 51	34
⑦ 8753ES-M5	2	30kHz to 6GHz	110dB	●	●	●	-85 to +10dBm	●	●	Built in S-parameter test set; Options: 006, 010, 014, 1D5	22 x 43 x 51	34

- ① Agilent Technologies E5062A-M1 Options: 016: Touch Screen Colour LCD; 250: S-parameter test set, 50Ω; 810: Keyboard; 820: Mouse
- ② Agilent Technologies E5071A-M1 Options: 010: Time domain analysis; 016: Touch Screen Color LCD; 1E5: High stability timebase; 414: 4-ports with extended power range
- ③ Agilent Technologies E8358A-M1 Options: 015: Add configurable Test Set
- ④ Agilent Technologies N5230A-M1 Options: 220: Standard 2-port Test Set
- ⑤ Agilent Technologies 871x Options: Opt 1CL: HP DIN keyboard; Opt 1C2: IBASIC capability; Opt 1DA: 50Ω AM delay; Opt 1DB: 75Ω AM delay; Opt 1EC: 75Ω impedance; Opt1E1: 60dB Attenuator; Opt 100: Fault location/structure return loss
- ⑥ Agilent Technologies 872xES Options: Opt 010: Add time domain analysis capability; Opt 012: Direct sampler access; Opt 089: Frequency offset mode; Opt 1D5: High stability frequency reference
- ⑦ Agilent Technologies 8753 Options: Opt 002: Harmonic measurements; Opt 006: 6GHz frequency extension; Opt 010: Time Domain capability; Opt 014: Configurable Test Set

Vector Network Analyser Accessories

	Type	Frequency Range	Connector Type	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Agilent Technologies						
N4691A-M1	Electronic Calibration Module	10MHz to 26.5GHz	3.5mm	Option MOF Male-female connectors	3 x 4 x 6	3
11852B	50/75Ω Minimum Loss Pad	DC to 2GHz	N Type	50Ω(F) to 75Ω(M)		
11852B-004	50/75Ω Minimum Loss Pad	DC to 3GHz	N Type	50Ω(M) to 75Ω(F)	1 x 7 x 1	<1
16034E	Component Test Fixture	100kHz to 400MHz				
41952B	Transmission / Reflection Test Set	100kHz to 500MHz	N Type (F)	75Ω; directivity 35dB		
85032B	50Ω Calibration Kit	300kHz to 6GHz	N Type	Includes 7mm to N-Type adaptors		
85033C	50Ω Calibration Kit	300kHz to 6GHz	APC 3.5	Includes 3.5mm to 7mm adaptors		
85033D	50Ω Calibration Kit	300kHz to 6GHz	APC 3.5			
85033E	50Ω Calibration Kit	30kHz to 9GHz	APC 3.5			
85036B	75Ω Calibration Kit	300kHz to 2GHz	N-type	Includes: Fixed termination		
11857D	Test Port Cables	30kHz to 6GHz	APC 7	Phase matched pair of cables; Use with 8753 series		
85052D	3.5mm Calibration Kit	45MHz to 26.5GHz	3.5mm	For use with 8510 and 872x systems		
85056K	2.92/2.4mm Calibration Kit	45MHz to 40/50GHz	2.92/2.4mm	For use with 8510 and 872x systems		
85093C-M1	Electronic Calibration Module	300kHz to 9GHz	3.5mm	Option MOF Male-female connectors		
85131D	3.5mm test port cable set (qty 2)		3.5mm (M,F)	For use with 8720ES		
85133D	2.4mm test port cable set (qty 2)		2.4mm (M,F)	For use with 8722ES		
87512B	75Ω Transmission Reflection Test Set	DC to 2GHz	N Type (F)	For use with 8751A	8 x 9 x 4	<1

RF Analysers & Meters

Scalar Network Analysers

	Channels	Frequency Range	Dynamic Range SWR	Return Loss	Dynamic Range Power Meter	Frequency Counter	Source Output	Storage Memory IEEE 488	Other Information See notes	Options	Dimensions (cm) H x W x D	Weight (kg)
Aeroflex (IFR)												
① 6200A-001	4	10MHz to 20GHz	85dB	●●●●	●●●●	●●●●	-90 to +20dBm	●●	Microwave Test Set with Voltage / Current Source	Opt 001	20 x 39 x 55	16
① 6200B-1-3	4	10MHz to 20GHz	85dB	●●●●	●●●●	●●●●	-90 to +20dBm	●●	Microwave Test Set with Voltage / Current Source	Opt 001; Opt 003	20 x 39 x 55	16
① 6203B	4	10MHz to 26.5GHz	85dB	●●●●	●●●●	●●●●	-10 to +7dBm	●●	Microwave Test Set with Voltage / Current Source		20 x 39 x 55	20
Agilent Technologies												
② 8757D	3						n/a	●	Frequency range is dependent on detectors used	Requires detectors, bridge or power splitter and separate sweep generator	18 x 43 x 48	22
Anritsu												
④ S251A	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●	N-type to 7/16 adaptors		6 x 18 x 21	2
④ S251A-05-M2	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●		Opt 05	6 x 18 x 21	2
④ S251A-10	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●		Opt 10	6 x 18 x 21	2
③ S251B-05-M1	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●	N-type to 7/16 adaptors	Opt 05; Opt 10	6 x 18 x 26	2
④ S251B-05-M2	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●	5400-71N50 RF detector	Opt 05; Opt 10	6 x 18 x 26	2
④ S251B-05-M3	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●	5400-71N50 RF detector and 7/16 adaptors	Opt 05; Opt 10	6 x 18 x 26	2
④ S251B-M4	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●	760-215A transit case (requires RF detector)	Opt 05; Opt 10A	6 x 18 x 26	2
④ S251C-05-M1	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●	5400-71N50 RF detector	Opt 05; Opt 10A	7 x 18 x 26	2
④ S251C-05-M2	2	625MHz to 2.5GHz	54dB	●●●●	●●●●	●●●●	-30dBm / +6dBm	●	5400-71N50 RF detector	Opt 05; Opt 10B	7 x 18 x 26	2
④ S330A	1	700MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●			6 x 18 x 21	1
④ S331	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●			6 x 18 x 21	1
④ S331A	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●			6 x 18 x 21	1
④ S331A-05	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●		Opt 05	6 x 18 x 21	1
④ S331A-05-M2	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●		Opt 05	6 x 18 x 21	1
④ S331B	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	517 display points; Time/date stamp; 200 memory locations		6 x 18 x 26	2
④ S331B-05	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	517 display points; Time/date stamp; 200 memory locations	Opt 05	6 x 18 x 26	2
④ S331B-05-M2	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	7/16 calibration kit	Opt 05	6 x 18 x 26	2
④ S331C-05-M1	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	N-type to 7/16 adaptor	Opt 05	6 x 18 x 26	2
④ S331C-05-M2	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●		Opt 05	6 x 18 x 21	2
④ S331C-05-M3	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●		Opt 05	6 x 18 x 21	2
④ S331C-05-M4	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	5400-71N50 RF detector & N-type to 7/16 adaptor	Opt 05	6 x 18 x 21	2
④ S331C-05-M5	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	5400-71N50 RF detector	Opt 05	6 x 18 x 21	2
④ S331D-M1	1	25MHz to 4GHz	60dB	●●●●	●●●●	●●●●	-14 to -3dBm	●			6 x 18 x 26	2
④ S332B-05	1	25MHz to 3.3GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	Spectrum Analyser (100kHz to 3GHz)	Opt 05	6 x 18 x 26	2
④ S332D-M1	1	25MHz to 4GHz	65dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	Spectrum Analyser (100kHz to 3GHz)	Opt 29	6 x 18 x 26	2
④ S810C-M1	1	3.3 to 10.5GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●	Precision K(F) Test port connector		6 x 18 x 26	2
④ S818A	1	3 to 18GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●			6 x 18 x 21	1
④ S818A-05	1	3 to 18GHz	54dB	●●●●	●●●●	●●●●	-14 to -3dBm	●		Opt 05	6 x 18 x 21	1
④ S820A-M1	1	3.3 to 20GHz	65dB	●●●●	●●●●	●●●●		●		Opt 05, 28K50, 22K50, 34RKNF50, 560-7N50B, 15KKF50-1.5A, 760-215A	6 x 18 x 21	1
④ S820A-M2	1	3.3 to 20GHz	65dB	●●●●	●●●●	●●●●		●		Opt 05	6 x 18 x 21	1

① Aeroflex 620x: Range dependent on 623x Detectors or 658x Test Heads; Power meter requires 69xx sensor; 50MHz, 1mW reference
Aeroflex Options; Opt 001: 70dB step attenuator; Opt 003: 3.5" Floppy Disk Drive
② Agilent Technologies 8757D : Requires detectors, bridge or power splitter and separate sweep generator
③ Anritsu S251B-05-M1: Includes RF Detector, 7/16(M) and (F) open/short/load, 7/16(F) and (M) to N(M) and (F) adaptors
④ Anritsu Options: Opt 05: RF Wattmeter Power Monitoring; Opt 10: Bias Tee; Opt 10B: High Current Bias Tee; Opt 10A: Bias Tee; Opt 29: RF Wattmeter Power Monitoring (no power sensor required)

Verify...
RF Power
Meters
Pag 20

RF Analysers & Meters

Scalar Network Analyser Accessories

	Type	Frequency Range	Input Range	Connector Type	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Aeroflex (IFR)							
54311-110H	Ruggedised Test Cable	DC to 26.5GHz		APC 3.5	For use with 658x Test Heads; Length 3m		
54311-113Y	Detector Extension Cable				For use with 623x series; Length 25m		
6230A	Detector	10MHz to 20GHz	-70 to +20dBm	N Type (F)	For use with 620x series Test Sets; Length 1.5m	9 x 34	<1
6233	Detector	10MHz to 26.5GHz	-70 to +20dBm	APC 3.5	For use with 620x series Test Sets; Length 1.5m	8 x 34	<1
6233A	Detector	10MHz to 26.5GHz	-70 to +20dBm	APC 3.5	For use with 620x series Test Sets; Length 1.5m	8 x 34	<1
6583	Transmission Line Test Head	10MHz to 26.5GHz		APC 3.5	For use with 620x series Test Sets; Length 1.5m	4 x 11 x 16	1
Agilent Technologies							
11664B	Detector	10MHz to 26.5GHz	-60 to +16dBm	APC 3.5 (M)	For use with 8757		
11664C	Detector	26.5 to 40GHz			For use with 8757; parameters dependent on crystal detector used		
11665B	Modulator	15MHz to 18GHz		N Type	For use with 8757; Absorptive on/off square wave modulator		
11667A	Modulator	15MHz to 18GHz		N Type		4 x 5 x 1	<1
85025A	Detector	10MHz to 18GHz	-55 to +16dBm	N Type (M)	For use with 8757A or 8757D		
85025E	Detector	10MHz to 26.5GHz	-55 to +16dBm	APC 3.5	For use with 8757A or 8757D		
- 11679A	Extension Cable				For use with 85025E; Length 7.6m (25ft)		
- 11679B	Extension Cable				For use with 85025E; Length 61m (200ft)		
85027A	Directional Bridge	10MHz to 18GHz		N Type, APC 7	Directivity 40dB		<1
K422A	Waveguide Detector	18 to 26.5GHz	100mW max	UG-595/U	WR42 waveguide		
R422A	Waveguide Detector	26.5 to 40GHz	100mW max	UG-599/U	WR28 waveguide		
Anritsu							
2000-767	7/16(m) Calibration Kit			7/16	For use with S331 Sitemasters		
2000-768	7/16(f) Calibration Kit			7/16	For use with S331 Sitemasters		
5400-71N50	RF Detector	1MHz to 3GHz		N Type (M)	For use with Sitemaster with Option 05		
97N50-1	Autotester	10MHz to 18GHz		N Type	For use with IFR 620x series	3 x 5 x 8	<1
98S50-1	Autotester	10MHz to 26.5GHz		APC 3.5	For use with IFR 620x series	5 x 4 x 2	<1
① XXUM70-M1	Calibration Kit	5.85 to 8.20GHz		WR137, WG14			
① XXUM70-M2	Calibration Kit	5.85 to 8.20GHz		WR137, WG14	2x N Type (M) adapter		
① XXUM84-M1	Calibration Kit	7.05 to 10.0GHz		WR112, WG15			
① XXUM100-M1	Calibration Kit	8.20 to 12.4GHz		WR90, WG16			
Rohde & Schwarz							
ZRA	SWR Bridge	40kHz to 150MHz		N Type (F)	For use with Advantest R3754B		<1
Spinner							
7-16 CalKit	50Ω 7/16 Calibration Kit			7/16	Comprises 50Ω male load, open/short circuits		
7-16 CalKit 2	50Ω 7/16-type Calibration Kit			7/16	Comprises 50Ω female load, open/short circuits		
7-16 CalKit 3	50Ω 7/16-type Calibration Kit			7/16	Comprises 50Ω male and female load, open/short circuits		

① Anritsu XXUMxxx: Consists of 1/8 wavelength offset short, 3/8 wavelength offset short and precision waveguide load

RF Analysers & Meters

RF Power Meters

Acterna	Type	Frequency Range	Measurement Range dBm	Measurement Range W	Maximum SWR	Element/Sensor required	IEEE 488	Other Information	Dimensions (cm) H x W x D	Weight (kg)
① FIT-400	Installation Tester	400MHz to 1GHz	+13 to +47	20mW to 50W					20 x 10 x 4	1
① FIT-1800	Installation Tester	1700 to 2000MHz	+3 to +37	2mw to 5W					20 x 10 x 7	1
Aeroflex (IFR)										
6960	Power Meter	30kHz to 40GHz	-70 to +35	100pW to 3W		69xx		Digital readout	11 x 26 x 37	4
6960A	Power Meter	30kHz to 40GHz	-70 to +35	100pW to 3W		69xx		Digital readout	11 x 26 x 37	4
6960B	Power Meter	30kHz to 40GHz	-70 to +35	100pW to 3W		69xx		Digital readout	11 x 26 x 37	4
6970-001	Power Meter	30kHz to 40GHz	-70 to +35	100pW to 3W		69xx		Opt 001: Power reference	5 x 8 x 19	6
- 6910	Power Sensor	10MHz to 20GHz	-30 to +20	1µW to 100mW	1.40			N Type (M) connector	3 x 3 x 9	<1
- 6912	Power Sensor	30kHz to 4.2GHz	-30 to +20	1µW to 100mW	1.60			N Type (M) connector	3 x 3 x 10	<1
- 6914-002	Power Sensor	10MHz to 40GHz	-30 to +20	1µW to 100mW	1.58			APC 2.92 connector; Opt 002: adaptor for WG22	3 x 3 x 9	<1
- 6919	Power Sensor	30kHz to 3GHz	-30 to +20	1µW to 100mW	1.40			RF Connector: Precision N-type male, 75Ω	3 x 4 x 13	<1
- 6920	Power Sensor	10MHz to 20GHz	-70 to -20	100pW to 10µW	1.40			N Type (M) connector	3 x 3 x 10	<1
- 6923	Power Sensor	10MHz to 26.5GHz	-70 to -20	100pW to 10µW	1.50			APC 3.5 connector	3 x 3 x 9	<1
- 6924-001	Power Sensor	10MHz to 40GHz	-70 to -20	100pW to 10µW	1.97			APC 2.92 connector.	3 x 3 x 9	<1
- 6924-002	Power Sensor	10MHz to 40GHz	-70 to -20	100pW to 10µW	1.97			APC 2.92 connector; Opt 002: adaptor for WG22	3 x 3 x 9	<1
- 6932	Power Sensor	30kHz to 4.2GHz	-15 to +35	30µW to 3W	1.10			Cannot be used with 6960 series meters	3 x 3 x 10	<1
- 6934	Power Sensor	10MHz to 40GHz	-15 to +30	30µW to 1W	1.55			Cannot be used with 6960 series meters	3 x 3 x 10	<1
Agilent Technologies										
E4416A	Power Meter	9kHz to 110GHz	-70 to +44	100pW to 25W		E441xx/848x/E93xx	●		9 x 22 x 35	4
- E9323A	Peak & Average Power Sensor	50MHz to 6GHz	-60 to +20	1nW to 100mW	1.22			For use with EPM-P Series power meters only	3 x 4 x 15	<1
- E9327A	Peak & Average Power Sensor	50MHz to 18GHz	-60 to +20	1nW to 100mW	1.26			For use with EPM-P Series power meters only	3 x 4 x 15	<1
E4418A	Power Meter	100kHz to 110GHz	-70 to +44	100pW to 25W		E441xx/848x	●		9 x 22 x 35	4
E4418B	Power Meter	100kHz to 110GHz	-70 to +44	100pW to 25W		E441xx/848x/E930x	●		9 x 21 x 35	4
E4418B-002	Power Meter	100kHz to 110GHz	-70 to +44	100pW to 25W		E441xx/848x	●	Options fitted: 002: Parallel rear panel sensor input	9 x 21 x 35	4
E4419B	Power Meter	100kHz to 110GHz	-70 to +44	100pW to 25W		E441xx/848x	●	Dual input allows difference and ratio measurements	9 x 21 x 35	5
E4419B-001-003	Power Meter	100kHz to 110GHz	-70 to +44	100pW to 25W		E441xx/848x	●	Options fitted: 001: Internal rechargeable battery; 003: Supplies parallel rear panel sensor	9 x 21 x 35	5
- E4412A	Power Sensor	10MHz to 18GHz	-70 to +20	100pW to 100mW	1.27			For use with EPM-44xA meters	3 x 4 x 13	<1
- E4413A	Power Sensor	50MHz to 26.5GHz	-70 to +20	100pW to 100mW	1.26			For use with EPM-44xA meters	3 x 4 x 11	<1
- E9300A	Average Power Sensor	10MHz to 18.0GHz	-60 to +20	1nW to 100mW	1.26			For use with HP EPM Series power meters only	3 x 4 x 13	<1
- E9301A	Average Power Sensor	10MHz to 6GHz	-60 to +20	1nW to 100mW	1.19			For use with HP EPM Series power meters only	3 x 4 x 13	<1
- E9301H	Average Power Sensor	10MHz to 6GHz	-50 to +30	10nW to 1W	1.15			For use with HP EPM Series power meters only	3 x 4 x 13	<1
437B	Power Meter	100kHz to 110GHz	-70 to +44	100pW to 25W		848x	●		9 x 21 x 27	3
- 8481A	Power Sensor	10MHz to 18GHz	-30 to +20	1µW to 100mW	1.40			N Type (M) connector	4 x 3 x 11	<1
- 8481B	Power Sensor	10MHz to 18GHz	0 to +44	1mW to 25W	1.28			N Type (M) connector	11 x 8 x 25	2
- 8481D	Power Sensor	10MHz to 18GHz	-70 to -20	100pW to 10µW	1.40			N Type (M) connector	4 x 3 x 15	<1
- 8481H	Power Sensor	10MHz to 18GHz	-10 to +35	100µW to 3W	1.30			N Type (M) connector	4 x 3 x 15	<1
- 8482A	Power Sensor	100kHz to 4.2GHz	-30 to +20	1µW to 100mW	1.60			N Type (M) connector	4 x 4 x 11	<1
- 8483A	Power Sensor	100kHz to 2GHz	-30 to +20	1µW to 100mW	1.80			Impedance 75Ω; N Type connector	4 x 3 x 15	<1
- 8484A	Power Sensor	10MHz to 18GHz	-70 to -20	100pW to 10µW	1.40			N Type (M) connector	4 x 4 x 13	<1
- 8485A	Power Sensor	50MHz to 26.5GHz	-30 to +20	1µW to 100mW	1.25			APC 3.5 connector	4 x 4 x 13	<1
- 8485D	Power Sensor	50MHz to 26.5GHz	-70 to -20	100pW to 10µW	1.29			APC 3.5 connector	3 x 4 x 10	<1
- 8487A	Power Sensor	50MHz to 50GHz	-30 to +20	1µW to 100mW	1.89			Nominal impedance 50Ω; 2.4mm connector	3 x 4 x 12	<1
Anritsu										
ML2437A	Power Meter	10MHz to 110GHz	-70 to +47	100pW to 50W		MA24xx	●	Displays peak power	9 x 22 x 25	3
ML2438A	Power Meter	10MHz to 110GHz	-70 to +47	100pW to 50W		MA24xx	●	Displays peak power, Dual input	9 x 22 x 25	3
- MA2422A	Power Sensor	10MHz to 18GHz	-70 to +20	100pW to 100mW	1.90			Thermal Power Sensor, Rise Time <4.0ms		
- MA2442A	Power Sensor	10MHz to 18GHz	-67 to +20	90pW to 100mW	1.90			High Accuracy Sensor		
- MA2444A	Power Sensor	10MHz to 40GHz	-67 to +20	90pW to 100mW	1.90			High Accuracy Sensor		
- MA2474A	Power Sensor	10MHz to 40GHz	-70 to +20	100pW to 100mW	1.90			Rise Time <4µs		
- MA2475A	Power Sensor	10MHz to 50GHz	-70 to +20	100pW to 100mW	1.63			Rise Time <4µs		

① Acterna FIT-xxxx: Includes DC Voltmeter and Ohmmeter, VSWR Measurements from 1.2 to 10

(continued over)

RF Analysers & Meters

RF Power Meters (continued)

Bird	Type	Frequency Range	Measurement Range dBm	Measurement Range W	Maximum SWR	Element/Sensor required	IEEE 488	Other Information	Dimensions (cm) H x W x D	Weight (kg)
43	Power Meter	450kHz to 2.3GHz	+20 to +70	100mW to 10kW		Bird element			18 x 13 x 9	1
4314	Power Meter	450kHz to 2.3GHz	+20 to +70	100mW to 10kW		Bird element		Can measure peak power of pulses and envelope	18 x 13 x 9	2
4314B	Power Meter	450kHz to 2.3GHz	+20 to +70	100mW to 10kW		Bird element		Can measure peak power of pulses and envelope	18 x 13 x 9	2
4391	Power Meter	450kHz to 2.3GHz	+20 to +70	100mW to 10kW	1.05	Bird element		Can measure peak power of pulses and envelope	11 x 16 x 25	2
4410A	Power Meter	200kHz to 2.3GHz	+20 to +70	100mW to 10kW		Bird element		Requires element	18 x 10 x 9	2
4421-101	Power Meter	200kHz to 2.3GHz	+20 to +70	100mW to 10kW		402x		Digital Display	11 x 31 x 31	5
- 4022	Power Sensor	25MHz to 1GHz	+25 to +60	300mW to 1kW	2.00			For use with 4421-101	8 x 6 x 13	<1
4431	Power Meter	2MHz to 2.3GHz	+20 to +70	100mW to 10kW		Bird element		Includes variable RF signal sampler	18 x 10 x 10	2
4274-025	Sample Load	25MHz to 1GHz	Max +57	Max 500W				Attenuation 50dB	4 x 3 x 3	<1
4275-100	Variable Sampler	20MHz to 1GHz	Max +60	Max 1kW	1.25			SWR 1.1 to 512MHz; Coupling ± 3dB	7 x 7 x 3	<1
Gigatronics										
8541B	Power Meter	10MHz to 40GHz	-70 to +47	100pW to 50W		8040xx	●	LCD display	11 x 26 x 37	4
- 80401A	Power Sensor	10MHz to 18GHz	-67 to +20	200pW to 100mW	1.22				4 x 4 x 12	<1
Rohde & Schwarz										
NAS	Directional Power Meter	1 to 1990MHz	+10 to +65	10mW to 1200W		NAS-Zn			15 x 21 x 9	2
- NAS-Z7	Insertion Unit	890 to 960, 1710 to 1990MHz	+10 to +46	10mW to 30W	1.15			For GSM 900 / 1800 / 1900	12 x 6 x 9	<1
NRT	Power Reflection Meter	200MHz to 4GHz	-4 to +70	0.3mW to 2KW		NRT-Zxx			10 x 24 x 22	3
NRT-M1	Power Reflection Meter	200MHz to 4GHz	-4 to +71	0.3mW to 2KW		NRT-Zxx		Option: B1: NAP-Z interface; B3: Battery and charger	10 x 24 x 22	4
NRT-M2	Power Reflection Meter	200MHz to 4GHz	-4 to +72	0.3mW to 2KW		NRT-Zxx		Option: B1: NAP-Z interface; B2: 2x NRT-Z rear inputs; B3: Battery and charger	10 x 24 x 22	4
- NRT-Z44	Power Sensor	200MHz to 4GHz	+5 to +55	3mW to 120W	1.07				4 x 12 x 10	<1

Power Meter Elements for Bird Power Meters

Bird	Frequency Range	Max Power 1W	Max Power 2.5W	Max Power 5W	Max Power 10W	Max Power 25W	Max Power 50W	Max Power 100W	Max Power 250W	Max Power 500W	Max Power 1kW	Max Power 2.5kW	Max Power 10kW	Dimensions (cm) H x W x D	Weight (kg)
	450kHz to 2.5MHz									1000P					<1
	2 to 30MHz						50H	100H	250H	500H			2500H		<1
	25 to 60MHz			5A	10A		50A	100A	250A						<1
	50 to 125MHz			5B	10B	25B	50B	100B					2500B		<1
	95 to 125MHz	095-1	095-2												<1
	100 to 250MHz			5C	10C	25C	50C	100C	250C						<1
	200 to 500MHz			5D	10D	25D	50D	100D				1000D	10000D		<1
	275 to 450MHz	275-1													<1
	400 to 850MHz		400-2												<1
	400MHz to 1GHz			5E	10E	25E	50E	100E							<1
	800 to 950MHz	800-1	800-2												<1
	950MHz to 1.26GHz							100J	250J		1000J	2500J			<1
	1.1 to 1.8GHz		2.5K	5K		25K									<1
	1.7 to 1.99GHz			5L1			50L1								<1
	1.7 to 2.2GHz	1L	2.5L	5L	10L		50L								<1

RF Generators

RF Signal Generators

	Frequency Range	Frequency Stability	Amplitude Range	Reverse Power Protection	SSB Phase Noise (dBc/Hz)	Modulation Frequency	AM Range	FM Range	PM Range	IEEE 488	Other Information See notes	Dimensions (cm) H x W x D	Weight (kg)
Aeroflex (IFR)													
2022D	10kHz to 1GHz	1x10 ⁻⁹ /mth	-127 to +13dBm	50W	-70	0.4, 1, 3kHz	99.5%	1MHz	10rad	●		15 x 26 x 37	8
2023A	9kHz to 1.2GHz	1x10 ⁻⁹ /yr	-140 to +13dBm	50W	-124	10mHz to 20kHz	99.9%	100kHz	10rad	●		11 x 42 x 44	8
① 2026-01	10kHz to 2.4GHz	1x10 ⁻⁹ /yr	-137 to +20dBm	50W	-124	10mHz to 20kHz	99.9%	100kHz	10rad	●	Opt 01: 3rd oscillator	18 x 42 x 49	20
① 2032-01-02-06	10kHz to 5.4GHz	2x10 ⁻⁹ /yr	-144 to +13dBm	50W	-116	0.1Hz to 500kHz	99.9%	1MHz	10rad	●	Options 01, 02, 06	15 x 43 x 53	17
② 6145	70MHz to 20GHz										Pulse modulation only	15 x 9 x 5	<1
Agilent Technologies													
E4421B-M1	250kHz to 3GHz	5x10 ⁻¹⁰ /day	-136 to +10dBm	25W	-120	20Hz to 100kHz	100%	10MHz	90rad	●	Opt: 1E5: High Stability Timebase	14 x 43 x 43	13.5
E4422B-M2	250kHz to 4GHz	5x10 ⁻¹⁰ /day	-136 to +10dBm	25W	-120	20Hz to 100kHz	100%	10MHz	90rad	●	Opt: 1E5: High Stability Timebase	14 x 43 x 43	14.5
E4423B-M1	250kHz to 1GHz	5x10 ⁻¹⁰ /day	-136 to +13dBm	25W	-134	20Hz to 100kHz	100%	10MHz	90rad	●	High Spectral Purity	14 x 43 x 43	14
③ E8247C-M1	250kHz to 20GHz	1x10 ⁻⁷ /yr	-135 to +18dBm	0.5W	-136						Options: 1E1, 1EA, 520	18 x 43 x 50	22
④ E8251A-M1	250kHz to 20GHz	4.5x10 ⁻⁹ /day	-135 to +18dBm	0.5W	-130	0.5Hz to 1MHz	90%	8MHz	80rad	●	Options: 1E1, 1EA	18 x 43 x 50	22
⑤ E8251A-M2	250kHz to 20GHz	4.5x10 ⁻⁹ /day	-135 to +18dBm	0.5W	-130	0.5Hz to 1MHz	90%	8MHz	80rad	●	Options: 1E1, 1EA, UNJ	18 x 43 x 50	22
⑥ E8257D-M1	250kHz to 20GHz	2.5x10 ⁻¹⁰ /day	-135 to +18dBm	0.5W	-134						Options: 1E1, 1EA, 520	18 x 43 x 52	22
⑦ 11720A	2 to 18GHz										Pulse modulation only	10 x 21 x 29	3
⑧ 83711B-M3	1.0 to 20GHz	1x10 ⁻⁹ /day	-110 to +13dBm		-115					●	Options: 1E1	13 x 43 x 50	16
⑨ 8648B	100kHz to 2GHz	2x10 ⁻⁹ /yr	-136 to +13dBm	50W	-116	0.4 to 1kHz	100%	200kHz	20rad	●		17 x 33 x 37	7
⑨ 8648C-M1	9kHz to 3.2GHz	1x10 ⁻⁷ /yr	-136 to +20dBm	25W	-116	0.4 to 1kHz	100%	400kHz	40rad	●	Options: 1EA, 1E5, 1E6	17 x 33 x 37	7
⑨ 8648C-M2	9kHz to 3.2GHz	2x10 ⁻⁷ /yr	-136 to +20dBm	25W	-116	0.4 to 1kHz	100%	400kHz	40rad	●	Options: 1EA	17 x 33 x 37	7
⑨ 8648C-M3	9kHz to 3.2GHz	1x10 ⁻⁷ /yr	-136 to +20dBm	25W	-116	0.4 to 1kHz	100%	400kHz	40rad	●	Options: 1EA, 1E2, 1E5	17 x 33 x 37	7
⑨ 8648C-M4	9kHz to 3.2GHz	1x10 ⁻⁷ /yr	-136 to +20dBm	25W	-116	0.4 to 1kHz	100%	400kHz	40rad	●	Options: 1EA, 1E5	17 x 33 x 37	7
⑨ 8648C-M6	9kHz to 3.2GHz	1x10 ⁻⁷ /yr	-136 to +13dBm	25W	-116	0.4 to 1kHz	100%	400kHz	40rad	●	Options: 1E5	17 x 33 x 37	7
⑨ 8648D-M2	9kHz to 4GHz	1x10 ⁻⁷ /yr	-136 to +20dBm	25W	-116	0.4 to 1kHz	100%	800kHz	40rad	●	Options: 1EA, 1E5, 1E2, 1E6	17 x 33 x 37	7
⑨ 8648D-M3	9kHz to 4GHz	2x10 ⁻⁹ /yr	-136 to +20dBm	25W	-116	0.4 to 1kHz	100%	800kHz	40rad	●	Options: 1EA, 1E2	17 x 33 x 37	7
⑨ 8648D-M4	9kHz to 4GHz	1x10 ⁻⁷ /yr	-136 to +13dBm	25W	-116	0.4 to 1kHz	100%	800kHz	40rad	●	Options: 1E5	17 x 33 x 37	7
⑨ 8648D-M5	9kHz to 4GHz	2x10 ⁻⁹ /yr	-136 to +13dBm	25W	-116	0.4 to 1kHz	100%	800kHz	40rad	●	Options: none	17 x 33 x 37	7
⑨ 8648D-M6	9kHz to 4GHz	2x10 ⁻⁹ /yr	-136 to +13dBm	25W	-116	0.4 to 1kHz	100%	800kHz	40rad	●	Options: 1E2	17 x 33 x 37	7
⑨ 8648D-M7	9kHz to 4GHz	1x10 ⁻⁷ /yr	-136 to +13dBm	25W	-116	0.4 to 1kHz	100%	800kHz	40rad	●	Options: 1E2, 1E5	17 x 33 x 37	7
8656B	100kHz to 990MHz	2x10 ⁻⁹ /yr	-127 to +13dBm	25W	-114	0.4, 1kHz	99%	99kHz		●		13 x 43 x 52	18
⑩ 8656B-001	100kHz to 990MHz	1x10 ⁻⁹ /day	-127 to +13dBm	25W	-114	0.4, 1kHz	99%	99kHz		●	Options: 001	13 x 43 x 52	18
8657B	100kHz to 2.06GHz	2x10 ⁻⁹ /yr	-143 to +13dBm	50W	-130	0.4, 1kHz	100%	400kHz		●		13 x 43 x 58	21
⑪ 8662A-M1	10kHz to 1.28GHz	5x10 ⁻⁹ /day	-139.9 to +13dBm	30W	-142	0.4, 1kHz	95%	200kHz		●	Options: 003	18 x 43 x 58	30
⑫ 8664A-004	100kHz to 3GHz	1.5x10 ⁻⁹ /day	-139.9 to +13dBm	25W	-134	0.1Hz to 400kHz	100%	800kHz		●	Option 004	18 x 46 x 65	31

- ① Aeroflex (IFR) 20xx Options: Opt 01: Second modulation oscillator; Opt 02: Pulse Modulation; Opt 06: Enhanced avionics, 50 set-up memory
- ② Aeroflex (IFR) 6145; For use in pulse modulating externally produced CW signals; Requires source with PRF up to 20MHz; On/off ratio >70dB
- ③ Agilent Technologies E8247C-M1 Options: Opt 1E1: Add step attenuator; Opt 1EA: High RF output power; Opt 520: 250kHz to 20GHz
- ④ Agilent Technologies E8251A-M1 Options: Opt 1E1: Add step attenuator; Opt 1EA: High RF output power
- ⑤ Agilent Technologies E8251A-M2 Options: Opt 1E1: Add step attenuator; Opt 1EA: High RF output power; Opt UNJ: Improved phase noise
- ⑥ Agilent Technologies E8257D-M1 Options: Opt 1E1: Add step attenuator; Opt 1EA: High RF output power; Opt 520: 250kHz to 20GHz
- ⑦ Agilent Technologies 11720A; For use in pulse modulating externally produced CW signals; Requires pulse source with PRF up to 5MHz
- ⑧ Agilent Technologies 83711B-M3 Options: Opt 1E1: Add 110dB output step attenuator
- ⑨ Agilent Technologies 8648 Options: Opt 1EA: High power
Opt 1E2: Extended modulation frequency; Opt 1E5: High stability timebase; Opt 1E6: Pulse modulation
- ⑩ Agilent Technologies 865x Options: Opt 001: High stability timebase
- ⑪ Agilent Technologies 8662A-M1 Options: 003: Specified SSB Phase Noise for 640 MHz Output
- ⑫ Agilent Technologies 8664A-004 Options: Opt 004: Low-Noise Option

Verificate...
Digital Modulation
Signal Generators
Pag 23

RF Generators

RF Sweep Generators

	Frequency Range	Amplitude Range	Sweep Time	Sweep Modes			Modulation			Stability	Flatness	IEEE 488	Dimensions (cm) H x W x D	Weight (kg)
				Full	Marker	Start - Stop	External AM	External FM	External					
Agilent Technologies														
① 83640B	10MHz to 40GHz	-20 to +6dBm	10ms to 100s	●	●	●	●	●	●	5x10 ⁻¹⁰ /day	±0.6dB	●	18 x 43 x 65	27
② 83650L-M1	10MHz to 50GHz	-110 to +5dBm	10ms to 100s	●	●	●	●	●	●	5x10 ⁻¹⁰ /day	±0.6dB	●	18 x 43 x 65	27
83752B-M1	0.01 to 20GHz	-80 to +17dBm	10ms to 100s	●	●	●	●	●	●	5x10 ⁻¹⁰ /day	±1.3dB	●	13 x 43 x 48	16

① Agilent Technologies 83650L-M1 Options: 001: Add Step Attenuator; 008: 1Hz Frequency resolution
② Agilent Technologies 83752B-M1 Option: 1E1: 70dB Step Attenuator

RF Amplifiers

	Frequency Range	Gain	Gain Flatness	Input VSWR	Max Output	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Agilent Technologies								
8347A	100kHz to 3GHz	25dB	1.5dB	2	100mW		10 x 21 x 30	4
8447D	100kHz to 1.3GHz	25dB	1.5dB	2	5mW	Preamp	9 x 13 x 22	2
8447F	100kHz to 1.3GHz	25dB	1.5dB	2	18mW	Combined Preamp/Poweramp	9 x 13 x 22	2
8447F-H64	9kHz to 1.3GHz	22dB	1.5dB	2	18mW	For use with 11940A/1A Close Field Probes	9 x 13 x 21	2
Amplifier Research								
30W1000M7	25MHz to 1GHz	45dB	1.0dB	2	40W		16 x 51 x 30	16
BNOS								
DTX1800-2200-40-18	1.8GHz to 2.2GHz			2	18W	Nominal input power 0dBm or 1mW	14 x 23 x 46	20
DTX 1-1000-35-3P	1MHz to 1GHz	35dB	1.0dB	2	5W	Includes metered output	10 x 16 x 26	4
ENI								
510L	1.7 to 500MHz	45dB nominal	1.5dB	1.5	10W		13 x 22 x 38	8
550L	1.5 to 400MHz	50dB	1.5dB	1.8	50W		22 x 40 x 50	27

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Ancillary RF Test Equipment

RF Attenuators – Fixed

	Frequency Range	Attenuation	VSWR	Maximum Power Cont (Peak)	Input Connector Type	Output Connector Type	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Aeroflex (IFR)									
6531.4	DC to 3GHz	20dB	1.2	1W	N Type (F)	N Type (M)		2 x 2 x 10	<1
Agilent Technologies									
8491A-010	DC to 12.4GHz	10dB	1.3	2W (100W)	N Type (M)	N Type (F)		2 x 2 x 7	<1
8491B-010	DC to 18GHz	10dB	1.5	2W (100W)	N Type (M)	N Type (F)		2 x 2 x 7	<1
8491B-030	DC to 18GHz	30dB	1.5	2W (100W)	N Type (M)	N Type (F)		2 x 2 x 7	<1
8492A-010	DC to 18GHz	10dB	1.35	2W (100W)	APC-7	APC-7		2 x 2 x 7	<1
8492A-020	DC to 18GHz	20dB	1.35	2W (100W)	APC-7	APC-7		2 x 2 x 7	<1
8492A-030	DC to 18GHz	30dB	1.35	2W (100W)	APC-7	APC-7		2 x 2 x 7	<1
8498A	DC to 18GHz	30dB	1.3	25W (500W)	N Type (M)	N Type (F)		8 x 11 x 15	<1
Bird									
100AMPN-03	DC to 2.4GHz	3dB	1.25	100W	N Type (M)	N Type (F)		16 x 7 x 18	2
25-A-MFN-10	DC to 4GHz	10dB	1.25	25W	N Type (M)	N Type (F)		6 x 6 x 14	<1
25-A-30	DC to 4GHz	30dB	1.25	25W	N Type (M)	N Type (F)		6 x 6 x 14	<1
50-A-10	DC to 2.4GHz	10dB	1.25	50W	N Type (M)	N Type (F)		6 x 6 x 17	<1
50-A-30	DC to 4GHz	30dB	1.25	50W	N Type (M)	N Type (F)		6 x 6 x 19	<1
8302-010	DC to 2GHz	1dB	1.25	2W	BNC (M)	BNC (F)		5 x 2 x 2	<1
8302-020	DC to 2GHz	2dB	1.25	2W	BNC (M)	BNC (F)		5 x 2 x 2	<1
8302-060	DC to 2GHz	6dB	1.25	2W	BNC (M)	BNC (F)		5 x 2 x 2	<1
8304-060	DC to 4GHz	6dB	1.25	10W (3kW)	N Type (M)	N Type (F)		3 x 3 x 8	<1
8306-100-N	DC to 4GHz	10dB	1.25	25W (3kW)	N Type (M)	N Type (F)		3 x 3 x 11	<1
8306-200-N	DC to 4GHz	20dB	1.25	25W (3kW)	N Type (M)	N Type (F)		3 x 3 x 11	<1
8308-200-N	DC to 2GHz	20dB	1.25	75W (3kW)	N Type (M)	N Type (F)		5 x 5 x 20	<1
8321	DC to 500MHz	30dB	1.1	50W	N Type (F)	N Type (F)		10 x 16 x 26	3
8322	DC to 500MHz	30dB	1.1	200W	N Type (F)	N Type (F)		15 x 22 x 45	9
8323	DC to 500MHz	30dB	1.1	100W	N Type (F)	N Type (F)		27 x 22 x 16	5
8327-300	DC to 500MHz	30dB	1.1	1kW	LC Type (F)	N Type (F)		60 x 18 x 44	26
8329-300	DC to 500MHz	30dB	1.5	2kW	LC Type (F)	N Type (F)		60 x 18 x 44	26
8343-030	DC to 1GHz	3dB	1.25	100W	N Type (F)	N Type (F)		7 x 7 x 20	1
8343-100	DC to 1GHz	10dB	1.25	100W	N Type (F)	N Type (F)		7 x 7 x 20	1
Flann									
17081-40	9.84 to 15GHz	40dB	1.1		WR75/WG17	WR75/WG17		4 x 4 x 12	1
17081-30	9.84 to 15GHz	30dB	1.1		WR75/WG17	WR75/WG17		4 x 4 x 12	1
Interface Components									
200A-M1	DC to 18GHz	30dB		2W	SMA(M)	SMA(F)			<1
Narda									
765-20	DC to 5GHz	20dB	1.3	50W (2kW)	N Type (M)	N Type (F)		4 x 4 x 18	<1
766-3	DC to 4GHz	3dB	1.15	20W (1kW)	N Type (M)	N Type (F)		4 x 4 x 8	<1
768-10	DC to 11GHz	10dB	1.3	20W (1kW)	N Type (M)	N Type (F)		4 x 4 x 8	<1
768-20	DC to 11GHz	20dB	1.3	20W (1kW)	N Type (M)	N Type (F)		4 x 4 x 8	<1
779-10	DC to 18GHz	10dB	1.4	2W (200W)	N Type (M)	N Type (F)		2 x 2 x 7	<1
779-20	DC to 18GHz	20dB	1.4	2W (200W)	N Type (M)	N Type (F)		2 x 2 x 7	<1
RS Components									
285-9595	DC to 18GHz	6dB	1.15	2W	SMA(M)	SMA(F)			<1
285-9602	DC to 18GHz	10dB	1.15	2W	SMA(M)	SMA(F)			<1
Texscan									
FP50	DC to 2GHz	1, 2, 3, 6, 10, 20dB	1.5	1W	BNC	BNC	Fixed attenuator set	5 x 6 x 2	<1
Trilithic									
FB-50-SET	DC to 2GHz	1, 2, 3, 6, 10, 20dB		1W (750W)	BNC	BNC	Fixed attenuator set		<1
Weinschel									
AS-6	DC to 18GHz	3, 6, 10, 20dB	1.4	5W (1kW)	N Type (M)	N Type (F)	Fixed attenuator set	4 x 14 x 13	<1

Ancillary RF Test Equipment

RF Attenuators – Variable

	Frequency Range	Attenuation	Step Size	VSWR	Maximum Power Cont (Peak)	Input Connector Type	Output Connector Type	IEEE 488	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Aeroflex (IFR)											
2187	DC to 20GHz	0 to 130dB	1dB	2	1W	N Type (F)	N Type (F)	•		11 x 26 x 36	4
Agilent Technologies											
33321H	DC to 18GHz	0 to 70dB	10dB	1.5	1W (100W)	SMA (F)	SMA (F)		Requires 11713A		
8494A-001	DC to 4GHz	0 to 11dB	1dB	1.5	1W (100W)	N Type (F)	N Type (F)			4 x 7 x 16	<1
8494B	DC to 18GHz	0 to 11dB	1dB	1.9	1W (100W)	N Type (F)	N Type (F)			4 x 7 x 16	<1
8494B-002	DC to 18GHz	0 to 11dB	1dB	1.9	1W (100W)	SMA (F)	SMA (F)			4 x 7 x 16	<1
8494B-003	DC to 18GHz	0 to 11dB	1dB	1.9	1W (100W)	APC-7	APC-7			4 x 7 x 16	<1
8494H	DC to 18GHz	0 to 11dB	1dB	1.9	1W (100W)	SMA	SMA		Programmable with 11713A	4 x 7 x 14	<1
8495D	DC to 26.5GHz	0 to 70dB	10dB	1.8	1W (100W)	SMA	SMA			4 x 5 x 16	<1
8496A-001	DC to 4GHz	0 to 110dB	10dB	1.5	1W (100W)	N Type (F)	N Type (F)			4 x 7 x 16	<1
8496B	DC to 18GHz	0 to 110dB	10dB	1.9	1W (100W)	N Type (F)	N Type (F)			4 x 7 x 16	<1
8496H	DC to 18GHz	0 to 110dB	10dB	1.9	1W (100W)	SMA	SMA		Programmable with 11713A	4 x 7 x 14	<1
- 11716A						N Type (M)	N Type (M)		Interconnection Kit for 849x Attenuators		
P382A	12.4 to 18GHz	0 to 50dB	Continuous	1.15	5W	WR62/WG19	WR62/WG19			20 x 12 x 32	2
R382A	26.5 to 40GHz	0 to 50dB	Continuous	1.15	1W	WR28/WG22	WR28/WG22			16 x 12 x 16	2
Flann											
14110	5.38 to 8.18GHz	0 to 60dB	Continuous	1.15	8W	WR137/WG14	WR137/WG14			15 x 42 x 25	6
15110	6.58 to 10GHz	0 to 60dB	Continuous	1.15	6W	WR112/WG15	WR112/WG15			12 x 34 x 23	4
17110	9.84 to 15GHz	0 to 60dB	Continuous	1.15	3W	WR75/WG17	WR75/WG17			12 x 28 x 23	4
18110	11.9 to 18GHz	0 to 60dB	Continuous	1.15	2W	WR62/WG18	WR62/WG18			12 x 25 x 23	3
20110	17.6 to 26.7GHz	0 to 60dB	Continuous	1.1	1W	WR42/WG20	WR42/WG20			13 x 25 x 23	4
22110	26.4 to 40GHz	0 to 60dB	Continuous	1.15	1W	WR28/WG22	WR28/WG22			14 x 25 x 23	3
23110	33 to 50GHz	0 to 60dB	Continuous	1.15	0.7W	WR22/WG3	WR22/WG3		4 ranges of attenuation	12 x 14 x 23	3
Hatfield											
AC702	DC to 500MHz	0 to 100dB	1dB	1.4	0.5W	BNC	BNC		Impedance 75Ω	6 x 17 x 5	<1
2115	DC to 250MHz	0 to 100dB	1dB	1.25	0.5W	BNC	BNC		Impedance 75Ω	6 x 17 x 4	<1
Narda											
705B-99	DC to 18GHz	0 to 99dB	1dB	1.65	2W (200W)	N Type (F)	N Type (F)			7 x 16 x 6	1
791 F/M	2 to 12.4GHz	0 to 37.5dB	Continuous			N Type (F)	N Type (M)			9 x 2 x 5	<1
Telonic											
8143E	DC to 2GHz	0 to 110dB	1dB	1.4	3W	N Type (F)	N Type (F)			5 x 2 x 9	1
Weinschel											
940-60-33	DC to 4GHz	60dB	Continuous	1.8	5W (1kW)	N Type (F)	N Type (M)			11 x 11 x 10	1



Ancillary RF Test Equipment

RF Terminations

Manufacturer	Type	Frequency Range	VSWR	Maximum Power Cont. (Peak)	Connector Type	Dimensions (cm) H x W x D	Weight (kg)
Agilent Technologies							
909A-012		DC to 18GHz	1.25	2W (300W)	N Type (M)	2 x 2 x 5	<1
Bird							
25-T-MN		DC to 4GHz	1.25	25W	N Type (M)	12 x 6 x 6	<1
8053		DC to 3.5GHz	1.2	10W	N Type (M)	2 x 2 x 9	<1
8080		DC to 3.5GHz	1.25	25W	N Type (M)	3 x 3 x 13	<1
8085		DC to 3.5GHz	1.25	50W	N Type (M)	4 x 4 x 13	<1
8135		DC to 4GHz	1.3	150W	N Type (M)	10 x 16 x 24	3
8201		DC to 2.5GHz	1.25	500W	N Type (M)	15 x 22 x 43	10
Flann							
14040		5.38 to 8.18GHz	1.01	3W	WG14, R70, WR137		1
Suhner							
65N-50-0-31/133		DC to 6GHz	1.2	1W	N Type (F)		

RF Detectors & Splitters

Manufacturer	Type	Frequency Range	VSWR	Maximum Power Cont. (Peak)	Frequency Response	Nominal Coupling/Insertion Loss	Input Connector Type	Output Connector Type	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Agilent Technologies											
423B	Crystal Detector	10MHz to 12.4GHz	1.3	200mW	±0.3dB		N Type	BNC	Schottky Diode design		
11850A	Power Splitter	DC to 1.3GHz	1.1	100mW	±0.2dB	9.5dB	N Type (F)	N Type (F)		5 x 7 x 7	2
11850C	Power Splitter	DC to 3GHz	1.1	100mW	±0.2dB	9.5dB	N Type (F)	N Type (F)			
Anritsu											
K240B	Power Splitter	DC to 26.5GHz	1.5	1W	±0.6dB	8dB	SMA	SMA		3 x 3 x 1	<1
E-MECA											
H2N-1.950	Power Divider/Combiner	1.7GHz to 2.2GHz	1.25	80W	±0.1dB	0.3dB	N Type (F)	N Type (F)	2-way operation		
Narda											
3032	4-way Splitter/Combiner	950MHz to 2GHz	1.2	200W		3dB	N Type (F)	N Type (F)			
3322	4-way Splitter/Combiner	820MHz to 980MHz	1.25	500W		3dB	N Type (F)	N Type (F)	Cellular Band		
Suhner											
4901.02.A	Power Splitter	DC to 1GHz	1.1	1W	±0.2dB	6dB	BNC (F)	BNC (F)	Impedance 75Ω		<1

RF Couplers

Manufacturer	Type	Frequency Range	VSWR	Maximum Power Cont. (Peak)	Frequency Response	Nominal Coupling/Insertion Loss	Directivity	Input Connector Type	Output Connector Type	Dimensions (cm) H x W x D	Weight (kg)
Agilent Technologies											
11691D	Directional Coupler	2 to 18GHz	1.2			22dB	26dB	APC-7	APC-7		
11692D	Dual Directional Coupler	2 to 18GHz	1.4			22dB	26dB	N Type (F)	APC-7		
777D	Dual Directional Coupler	1.9 to 4GHz	1.2			20dB	30dB	N Type (M)	N Type (F)		
778D	Dual Directional Coupler	100MHz to 2GHz	1.1			20dB	32dB	N Type (M)	N Type (F)		
787D	Directional Coupler	1.9 to 4.1GHz	1.2	100mW	±0.2dB			N Type (M)	N Type (F)		
Flann											
14131-40	Waveguide Coupler	5.38 to 8.18GHz	1.03				40dB	WR137/WG14	WR137/WG14		
17133-10	Waveguide Coupler	9.84 to 15.0 GHz	1.03				50dB	WG17	WG17	4 x 4 x 43	1
Narda											
3020A	Directional Coupler	50MHz to 1GHz	1.1	500W (10kW)		20dB	35dB	N Type	N Type	4 x 6 x 33	1

Ancillary RF Test Equipment

RF Cables & Adaptors

Manufacturer	Type	Frequency Range	VSWR	Impedance	Connector Type	Other Information
Agilent Technologies						
11500E	MW Coaxial Cable	DC to 26.5GHz	1.40	50Ω	APC 3.5 (M)	
11567A	Air Line Extension	DC to 18GHz		50Ω	APC 7	Electrical length: 20.21cm
11851A	RF Cable Kit				N Type	Comprises 3 x Phase matched test cables
J281A	Waveguide/Coax Adaptor	5.3 to 8.2GHz	1.25	50Ω	WR137 / N Type (F)	
P281B-013	Waveguide/Coax Adaptor	12.4 to 18GHz	1.06	50Ω	WR62 / N Type (M)	
P281C-012	Waveguide/Coax Adaptor	12.4 to 18GHz	1.06	50Ω	WR62 / N Type (M)	
R281B	Waveguide/Coax Adaptor	26.5 to 40GHz	1.06	50Ω	WR28 / 2.4mm (M)	
X281C	Waveguide/Coax Adaptor	8.2 to 12.4GHz	1.05	50Ω	WR90 / N Type (M)	
Flann						
14094-NF10	Waveguide/Coax Adaptor	5.38 to 8.18GHz	1.15	50Ω	WR137 / N Type (F)	UBR70 Flange
14094-SF40	Waveguide/Coax Adaptor	5.38 to 8.18GHz	1.15	50Ω	WR137 / SMA (F)	UBR70 Flange
15093-SF40	Waveguide/Coax Adaptor	6.58 to 10GHz	1.20	50Ω	WR112 / SMA (F)	
15094-NF10	Waveguide/Coax Adaptor	6.58 to 10GHz	1.12	50Ω	WR112 / N Type (F)	
15441-100	Waveguide Section	6.58 to 10GHz		50Ω	WR112 / WG15	
16094-NF10	Waveguide/Coax Adaptor	8.2 to 12.5GHz	1.12	50Ω	WR90 / N Type (F)	UBR100 Flange
16094-N-M1	Waveguide/Coax Adaptor	8.2 to 12.5GHz	1.12	50Ω	WR90 / N Type (F)	UDR100 Flange
17093-NF10	Waveguide/Coax Adaptor	9.8 to 15GHz	1.20	50Ω	WR75 / N Type (F)	
17093-SF60	Waveguide/Coax Adaptor	13 to 13.5GHz	1.05	50Ω	WR75 / SMA (F)	
17094-NF10	Waveguide/Coax Adaptor	9.84 to 15GHz	1.12	50Ω	WR75 / N Type (F)	UBR120 Flange
17094-NF10-D	Waveguide/Coax Adaptor	9.84 to 15GHz	1.12	50Ω	WR75 / N Type (F)	UDR120 Flange
17094-SF40	Waveguide/Coax Adaptor	9.84 to 15GHz	1.12	50Ω	WR75 / SMA (F)	UBR120 Flange
17441	Waveguide Adaptor	9.84 to 15GHz		50Ω	WR75	UDR/UBR 120 Flange
20094-SF40	Waveguide/Coax Adaptor	17.6 to 26.7GHz	1.20	50Ω	WR42 / SMA (F)	
22093-KF20	Waveguide/Coax Adaptor	26.4 to 40.1GHz	1.20	50Ω	WR28 / K (F)	UBR320 Flange
22094-KF20	Waveguide/Coax Adaptor	26.4 to 40.1GHz	1.15	50Ω	WR28 / Precision K (F)	UBR320 Flange
22441-100	Waveguide Section	26.4 to 40.1GHz		50Ω	WR28 / WG22	
Maury Microwave						
AU233A	Waveguide/Coax Adaptor	26.5 to 40GHz		50Ω	WR28 / APC 3.5 (F)	
K233A	Waveguide/Coax Adaptor	18 to 26.5GHz		50Ω	WR42 / 2.92mm (K Type) (F)	K Type mates with SMA and 3.5mm
RS Components						
193-506	RF Test Cable	DC to 18GHz	1.35	50Ω	SMA (M)	
193-512	RF Test Cable	DC to 18GHz	1.35	50Ω	SMA (M)	
293-3356	RF Test Cable	DC to 18GHz	1.35	50Ω	N Type (M)	
Suhner						
104-APC3.5F	RF Test Cable	DC to 26.5GHz		50Ω	APC 3.5 (F)	
104-1	RF Test Cable	DC to 18GHz		50Ω	N Type (F)	
104-2	RF Test Cable	DC to 18GHz		50Ω	N Type (M)	
104-3	RF Test Cable	DC to 18GHz		50Ω	N Type (M)	
31S	Adaptor	DC to 18GHz		50Ω	N Type / SMA	
33S	Adaptor	DC to 18GHz		50Ω	N Type / SMA	

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Spectrum
Analysers
Pag 14

Ancillary RF Test Equipment

Other RF Accessories

	Type	Frequency Range	Impedance	Connector Type	Other Information	Dimensions (cm) H x W x D	Weight (kg)
Acterna							
RFZ-1	Return Loss Bridge	75kHz to 190MHz	75Ω	BNC			
Aeroflex (IFR)							
54481-042M	Impedance Transformer	100Hz to 620kHz	50 to 600Ω	BNC / 3 Pin (Bal)			
Agilent Technologies							
10514A	Double Balanced Mixer	200kHz to 500MHz	50Ω	BNC			
85320A	Test Mixer Module	2 to 26.5GHz			For 85301B antenna/RCS measurement systems		
85320B	Reference Mixer Module	2 to 26.5GHz			For 85301B antenna/RCS measurement systems		
Magnum Microwave							
134P-1	Mixer	1 to 26.5GHz	50Ω	SMA (F)			
46PG-1	Mixer	2 to 8GHz	50Ω	SMA (F)		1 x 5 x 3	
Telonic							
P300-4AB4	Low Pass Filter	300MHz	50Ω	BNC			

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