

KEYSIGHT TECHNOLOGIES (AGILENT HP)

N9311X

The Keysight N9311X is a comprehensive suite of professional RF and microwave accessories designed to extend the capabilities of Keysight's handheld and benchtop signal generators and spectrum analyzers. The series includes phase-stable coaxial cables, adapters, transient limiters, bandpass filters, precision 3-in-1 calibrators, high-power attenuators, antennas, and near-field probe sets.

SPECIFICATIONS

General Kit Information

Product Series	N9311X RF and Microwave Accessories
Primary Application	RF and microwave testing, complementing Keysight handheld and low-cost bench analyzers
Target Compatible Instruments	N9340B, N9342C, N9343C, N9344C handheld spectrum analyzers, N9310A signal generator, N9320B spectrum analyzer

RF Coaxial Cable Specifications

N9311X-600 Cable Connectors	N (m) to N (m)
N9311X-600 Cable Length	1.5 m
N9311X-600 Frequency Range	DC to 8 GHz
N9311X-600 VSWR	< 1.15 (to 3 GHz), < 1.25 (to 8 GHz)
N9311X-601 Cable Connectors	N (m) to SMA (m)
N9311X-601 Cable Length	1.5 m
N9311X-601 Frequency Range	DC to 8 GHz
N9311X-601 VSWR	< 1.15 (to 3 GHz), < 1.25 (to 8 GHz)
N9311X-604 Cable Connectors	N (m) to N (m)
N9311X-604 Cable Length	1.5 m
N9311X-604 Cable Type	Phase-stable
N9311X-604 Frequency Range	DC to 18 GHz

Adapters and Terminations Specifications

N9311X-605 Adapter Type	N (m) to BNC (f)
N9311X-606 Adapter Type	N (m) to SMA (f)
N9311X-607 Adapter Type	N (m) to TNC (f)
N9311X-610 Adapter Type	N (m) to N (m)
N9311X-611 Adapter Type	N (f) to N (f)
N9311X-612 Adapter Type	N (m) to SMA (m)
N9311X-613 Adapter Type	N (m) to BNC (m)
N9311X-615 Adapter Type	N (m) to 7/16 DIN (f)
N9311X-616 Adapter Type	N (m) to 7/16 DIN (m)
N9311X-620 Adapter Type	7/16 DIN (f) to 7/16 DIN (f)
N9311X-621 Adapter Type	7/16 DIN (m) to 7/16 DIN (m)

Antennas and Near-Field Probes

N9311X-585 Antenna Type	Telescopic
N9311X-585 Frequency Range	70 MHz to 1000 MHz
N9311X-586 Antenna Type	Whip (GSM850)
N9311X-586 Frequency Range	824 MHz to 894 MHz
N9311X-586 Gain	2 dBi
N9311X-587 Antenna Type	Whip (GSM900)
N9311X-587 Frequency Range	880 MHz to 960 MHz
N9311X-587 Gain	2 dBi
N9311X-588 Antenna Type	Whip (DCS1800)
N9311X-588 Frequency Range	1710 MHz to 1880 MHz
N9311X-588 Gain	2 dBi
N9311X-589 Antenna Type	Whip (PCS1900)
N9311X-589 Frequency Range	1850 MHz to 1990 MHz
N9311X-589 Gain	2 dBi
N9311X-590 Antenna Type	Whip (WLAN 2.4 GHz)
N9311X-590 Frequency Range	2400 MHz to 2500 MHz
N9311X-590 Gain	2 dBi
N9311X-518 Frequency Range	30 MHz to 3 GHz
N9311X-518 Included Probes	4 (three H-field loops: 20 mm, 10 mm, 5 mm; one E-field stub)
N9311X-518 Connector	SMA (f)

RF and Electrical Performance

N9311X-540 Transient Limiter Frequency	9 kHz to 200 MHz
N9311X-540 Insertion Loss	10 dB
N9311X-540 Max Input Power	2.5 W CW
N9311X-540 Connectors	N (f) Input, N (m) Output

Calibrators

N9311X-203 Calibrator Type	3-in-1 Calibration Combo (Open/Short/Load)
N9311X-203 Frequency Range	DC to 4 GHz
N9311X-203 Connector	7/16 DIN (m)
N9311X-203 Impedance	50 Ω
N9311X-204 Calibrator Type	3-in-1 Calibration Combo (Open/Short/Load)
N9311X-204 Frequency Range	DC to 4 GHz
N9311X-204 Connector	7/16 DIN (f)
N9311X-204 Impedance	50 Ω

Phase-Stable Cables

N9311X-300 Cable Connectors	Type-N (m) to Type-N (m)
N9311X-300 Cable Length	1.5 m
N9311X-300 Frequency Range	DC to 18 GHz
N9311X-301 Cable Connectors	Type-N (m) to Type-N (f)
N9311X-301 Cable Length	1.5 m
N9311X-301 Frequency Range	DC to 18 GHz
N9311X-302 Cable Connectors	Type-N (m) to 7/16 DIN (m)
N9311X-302 Cable Length	1.5 m
N9311X-302 Frequency Range	DC to 7.5 GHz
N9311X-303 Cable Connectors	Type-N (m) to 7/16 DIN (f)
N9311X-303 Cable Length	1.5 m
N9311X-303 Frequency Range	DC to 7.5 GHz

Bandpass Filters

N9311X-501 Filter Type	Bandpass Filter
N9311X-501 Passband Frequency	815 to 849 MHz
N9311X-501 Connectors	Type-N (f) to Type-N (m)
N9311X-502 Filter Type	Bandpass Filter
N9311X-502 Passband Frequency	880 to 915 MHz
N9311X-502 Connectors	Type-N (f) to Type-N (m)
N9311X-503 Filter Type	Bandpass Filter
N9311X-503 Passband Frequency	1710 to 1785 MHz
N9311X-503 Connectors	Type-N (f) to Type-N (m)
N9311X-504 Filter Type	Bandpass Filter
N9311X-504 Passband Frequency	1850 to 1910 MHz
N9311X-504 Connectors	Type-N (f) to Type-N (m)
N9311X-505 Filter Type	Bandpass Filter
N9311X-505 Passband Frequency	1920 to 1980 MHz
N9311X-505 Connectors	Type-N (f) to Type-N (m)
N9311X-506 Filter Type	Bandpass Filter
N9311X-506 Connectors	Type-N (f) to Type-N (m)

Torque Wrenches

N9311X-155 Torque Wrench Type	Type-N Torque Wrench
N9311X-155 Torque Setting	1.35 N-m (12 lb-in)
N9311X-156 Torque Wrench Type	7/16 DIN Torque Wrench
N9311X-156 Torque Setting	25 N-m
N9311X-156 Size	1-1/4 inch

TECHNOLOGY

RF and Microwave Accessories

APPLICATIONS

RF and Microwave Testing & Measurement

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