

Misc. EMC Accessories

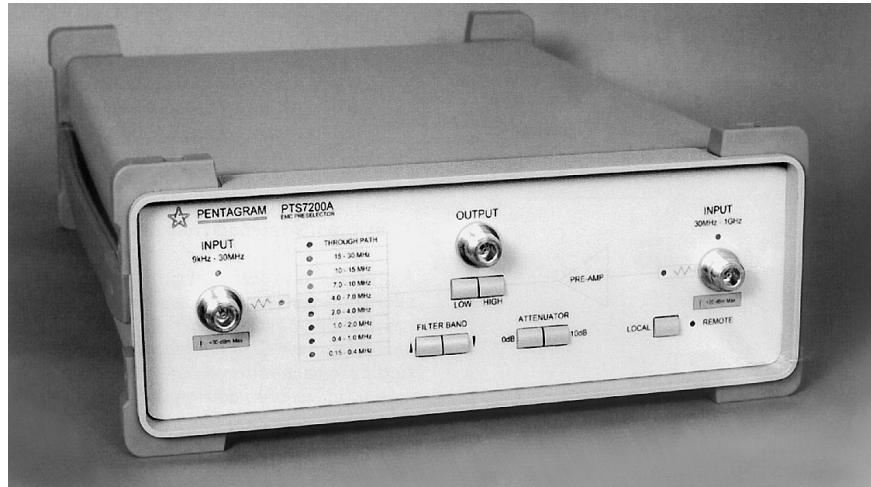
Agilent 11960A EMC Preselector

Reduces RF overload from broad-band and out-of-band signals. Perform near compliant conductor emissions measurements. Improve radiated emission measurement sensitivity. The 11960A has a 30 dB gain amplifier built-in.

Agilent 85685A RF Preselector

The 85685A RF preselector is designed to operate with the 8566B and 8568B spectrum analyzers. The RF preselector adds tracking filters to reduce overloading from out-of-band signal and preamplifiers for improved system sensitivity over the 20 Hz to 2 GHz frequency range. The 85685A RF preselector has two inputs, 20 Hz to 50 MHz and 20 MHz to 2 GHz. There is also a bypass mode which is DC to 18 GHz. Input 1 has a built-in transient limiter for protection from transients generated by line impedance stabilization networks (LISN).

The RF preselector is fully programmable over the GPIB (IEEE-488).



Preselector Filters

Start Frequency (MHz)	Stop Frequency (MHz)	Filter Type
0.0	0.0655	Fixed tuned
0.101	0.0756	Fixed tuned
0.074	0.2051	Fixed tuned
0.1975	0.5252	Fixed tuned
0.525	1.0493	Fixed tuned
1.025	2.0736	Fixed tuned
1.96	5.8922	Variable
5.83	17.3643	Variable
17.33	28.8643	Variable
28.73	51.7987	Variable
51.73	97.8673	Variable
97.83	152.356	Variable
152.33	219.4389	Variable
216.33	333.7705	Variable
332.23	500.0022	Variable
500.00	2009.9494	Variable

Input Specifications

Frequency Range	Input 1 20 Hz–50 MHz Bypass	Input 2 20 MHz–2 GHz DC to 18 GHz
Connector Type	BNC (50 Ω)	Type-N (50 Ω)
Fuse Blow Time	< 0.1 sec for > + 35 dBm NA	
Maximum Safe Input Power	+ 30 dBm (1 W)	
Average Impulsive Signals	100 W peak for 10μ sec pulse	
DC Voltage	0 V	
Standing Wave Ratio	< 1.5 : 1	< 1.5 : 1
> 10 dB RFP Atten	< 1.5 : 1 nominal	< 2.0 : 1 nominal
0 dB Atten		
RFP Anen Range	0–50 dB (10 dB steps)	
Preamp Gain	20 dB for 0 dB RFP atten	

Comb Generator Line Spacing Line Amplitude

Output
100 kHz, 500 kHz, 1 MHz, 5 MHz (nominal)
-40 to -60 dBm

Agilent 85650A Quasi-Peak Adapter

The 85650A quasi-peak adapter is an accessory used with the 8566B or 8568B spectrum analyzers for performing quasi-peak measurements as recommended by CISPR. These include the correct 6 dB bandwidths (200 Hz, 9 kHz, 120 kHz) and the specified detector charge and discharge time constants.



The bypass mode returns the spectrum analyzer back to standard operation unaffected by the quasi-peak adapter. In the normal mode the three CISPR bandwidths are available and the quasi-peak detector can be turned on and off.

There is a built-in speaker and phone jack for monitoring signals.

The 85650A provides nine form C (SPDT) auxiliary switches can be used with external power supplies to switch coax relays, DUT power, or your individual switching needs. Six switches are multiplexed such that when one is on five are off.

All functions are controlled over the GPIB (IEEE 488) except volume and line.

Frequency Band (MHz)	Bandwidth at 6 dB	Charge TC (ms)	Discharge TC (ms)
0.01–0.15	200 Hz	45	500
0.15–30	9 kHz	1	160
30–1000	120 kHz	1	550

Quasi-peak Response to CISPR Pulse (dB μ V)

PRF (Hz)	10 to 150 kHz	0.15 to 30 MHz	30 to 1000 MHz
1000	—	64.5 \pm 2.5	68.0 \pm 2.5
100	64.0 \pm 2.5	60.0 \pm 1.5	60.0 \pm 1.5
60	63.0 \pm 2.5	—	—
25	60.0 \pm 1.5	—	—
20	—	53.5 \pm 2.5	51.0 \pm 2.5
10	56.0 \pm 2.5	50.0 \pm 3.0	46.0 \pm 3.0
5	52.5 \pm 3.0	—	—
2	47.0 \pm 3.5	39.5 \pm 3.5	34.0 \pm 3.5
1	43.0 \pm 3.5	37.5 \pm 3.5	31.5 \pm 3.5
Isolated Pulse	41.0 \pm 3.5	36.5 \pm 3.5	28.5 \pm 3.5

Ordering Information

Listed by Agilent Technologies Model Number

11500A	Six foot RG-214U Cable with Type-N Connector
11500F	150 cm Cable (APC 3.5 Male Connectors)
11940A	Close Field Probe 30 MHz to 1 GHz
11941A	Close Field Probe 9 KHz to 30 MHz
11945A	Close Field Probe Set
11947A	Transient Limiter
11955A	Biconical Antenna
11956A	Log Periodic Antenna
11960A	EMC Preselector
11961A	EMI Measurement Software
11966A	Active Magnetic Loop Antenna
11966A K12	Passive Loop Set
11966A K24	Biconical Antenna 20 MHz to 300 MHz (2000 Watts)
11966A K30	Passive Rod Antenna
11966A K38	Biconical Antenna 30 MHz to 300 MHz (300 Watts)
11966A K40	Royce Field Site Source
11966A K47	Five Meter Cable (APC 3.5 Male Connector)
11966A K48	Ten Meter Cable (APC 3.5 Male Connector)
11966B	Active Monopole Antenna
11966C	Biconical Antenna 30 MHz to 300 MHz
11966D	Log-Periodic Antenna 200 MHz to 1 GHz
11966E	Double-Ridged Waveguide Horn Antenna 1 to 18 GHz
11966F	Conical Log Spiral Antenna 200 MHz to 1 GHz
11966G	Conical Log Spiral Antenna 1 GHz to 10 GHz
11966H	Dipole Antenna Set 28 MHz to 1000 MHz
11966I	Horn Antenna 200 MHz to 2 GHz
11966J	Horn Antenna 18 GHz to 40 GHz
11966K	Magnetic Field Pickup Coil 20 Hz to 50 kHz
11966L	Coaxial Cable 10 Meter Type-N
11966M	Coaxial Cable 10 Meter BNC
11966N	Log Periodic Antenna 200 MHz to 5 GHz
11966P	Broadband Antenna
11967A K05	Absorbing Clamp
11967A K06	Cavity Rejection Network
11967A K23	Bridged-T Rejection Networks
11967A	Current Probe 15 kHz to 50 MHz
11967B	Current Probe 20 Hz to 2 MHz
11967D	10 Amp Line Impedance Stabilization Network
11967E	25 Amp Line Impedance Stabilization Network
11968A K07	Shielded Room Kit
11968B	Manual Antenna Positioning Mast
11968C	Antenna Tripod
11968E	Manual Equipment Test Turntable
8447F H64	Dual Preamplifier 0.1 to 1300 MHz
8449B	Microwave Preamplifier 1 GHz to 26.5 GHz
85650A	Quasi-Peak Adapter
85685A	RF Preselector
85876A	Commercial Radiated EMI Software
85878A	EMI Report Generator
0160-6683	10 μ F Capacitor
8120-1840	122 Centimeter Coaxial Cable
11729-60014	Low Noise Preamplifier

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Agilent Technologies aims to maximize the value you receive, while minimizing your risk and problems. We strive to ensure that you get the test and measurement capabilities you paid for and obtain the support you need. Our extensive support resources and services can help you choose the right Agilent products for your applications and apply them successfully. Every instrument and system we sell has a global warranty. Support is available for at least five years beyond the production life of the product. Two concepts underlie Agilent's overall support policy: "Our Promise" and "Your Advantage."

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