

Agilent Technologies

E8486A Option 201

Product Note

The E8486A Option 201 is a standard E8486A-200 that has been calibrated at an extended frequency (54 GHz to 95 GHz). The specifications of the E8486A Option 201 at the 60 GHz to 90 GHz frequency range are identical to the standard E8486A-200. The typical specifications for E8486A Option 201 with the extended frequency range are listed below:

Table 1-1 E8486A-201 (extended frequency) typical specifications

Frequency	Power Range	Maximum Standing Wave Ratio (SWR)	Zero Set	Measurement Noise
54 GHz to < 60 GHz	1 nW to 100 mW (-60 dBm to +20 dBm)	< 1.35	< ± 200 pW	< 450 pW
60 GHz to 90 GHz	1 nW to 100 mW (-60 dBm to +20 dBm)	< 1.28	< ± 200 pW	< 450 pW
> 90 GHz to 95 GHz	1 nW to 100 mW (-60 dBm to +20 dBm)	< 1.35	< ± 200 pW	< 450 pW



The typical performance for the standing wave ratio (SWR) is as shown below:

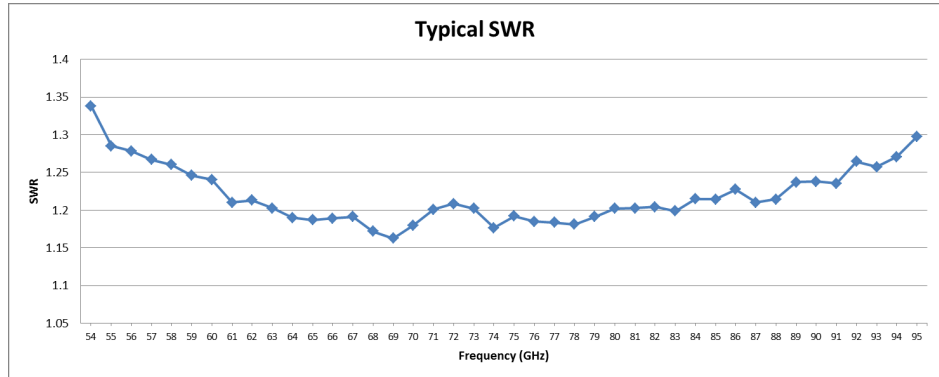


Figure 1-1 Typical SWR performance for the E8486A-201

NOTE

- The E8486A Option 201 measures continuous wave signals for input power above -20 dBm.
- Measurements with an input power of less than -20 dBm will have the same performance as the standard E8486A-200. At higher input power levels, digital, pulse, or other forms of amplitude modulation signals, multi-tone signals (multiple frequency components), and signals with a harmonic content of less than -45 dBc may introduce measurement errors.
- The Agilent E8486A waveguide power sensor is fully compatible with Agilent EPM (E4418B/19B, N1913A/14A), EPM-P (E4416A/17A), and P-Series (N1911A/12A) power meters.

Inspect the shipping container. If the container or packing material is damaged, it should be kept until the contents of the shipment have been checked mechanically and electrically. If there is physical damage or if the instrument does not pass the performance tests, notify the nearest Agilent office. Keep the damaged shipping materials (if any) for inspection by the carrier and an Agilent representative.

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