

KEYSIGHT TECHNOLOGIES (AGILENT HP)

86107A

The Keysight Agilent 86107A is a Precision Timebase Reference Module designed for use with the 86100A, 86100B, and 86100C Infiniium DCA/DCA-J wide-bandwidth sampling oscilloscope mainframes. It provides ultra-low jitter performance of less than 200 fs RMS and improves timebase resolution down to 2 ps/division, enabling highly accurate characterization of 40 Gb/s waveforms and high-speed digital communications.

SPECIFICATIONS

RF Reference Input Specifications

RF Input Frequency Range	2.4 to 48 GHz (option dependent)
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Jitter and Noise Performance

RMS Jitter (Frequencies > 4 GHz)	< 200 fs rms
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Inputs

Input Impedance	50 Ω (nominal)
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RF Input

Option 010 Clock Input Frequency Range	2.4 GHz to 11.5 GHz
Option 020 Clock Input Frequency Range	2.4 GHz to 22 GHz
Option 040 Clock Input Frequency Range	2.4 GHz to 48 GHz
Maximum Input Power (Non-damage)	+16 dBm
Clock Input Power Range ($\geq$ 4 GHz)	0 dBm to +10 dBm
Clock Input Power Range (2.4 to 4 GHz)	+3 dBm to +10 dBm

Performance

RMS Jitter (Frequencies 2.4 to 4 GHz)	< 280 fs
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TECHNOLOGY

Sampling Oscilloscope Timebase Reference

APPLICATIONS

Jitter and waveform analysis of high-speed electrical and optical signals up to 40 Gb/s

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