

KEYSIGHT TECHNOLOGIES (AGILENT HP)

86105C

The Keysight (Agilent) 86105C is a plug-in module for the Infiniium 86100A/B/C DCA and DCA-J sampling oscilloscope mainframes. It features a 9 GHz amplified optical channel and a 20 GHz electrical channel, offering extensive optical filter coverage for SONET/SDH and datacom/enterprise technologies up to 11.3 Gb/s in a single module.

SPECIFICATIONS

Physical

Operating Temperature	10 to +40 °C °C
Module Slots Required	1 standard DCA module slot

General Module Specifications

Module Type	Optical / Electrical Plug-in Module
Number of Optical Channels	1
Number of Electrical Channels	1
Supported Data Rates	Up to 11.3 Gb/s (option dependent)

Optical Channel Specifications

Wavelength Range	750 nm to 1600 nm
Optical Bandwidth (Unfiltered)	9 GHz
Fiber Type Compatibility	9/125 µm to 62.5/125 µm
Reference Receiver Capability	Data rates depend on installed filter options

Electrical Channel Specifications

Electrical Bandwidth	12.4 GHz / 20 GHz (selectable)
Electrical Input Connector Type	3.5 mm (male)
RMS Electrical Noise (12.4 GHz BW)	0.25 mV
RMS Electrical Noise (20 GHz BW)	0.5 mV
Maximum Input Signal	± 2 Vdc

Ordering Information and Options

Option 100	Combination of four low data rate filters
Option 200	Multi 9G filters
Option 300	Combination of low data rate filters and multi 9G filters
Option 110	155 Mb/s filter
Option 120	622 Mb/s filter
Option 130	1.063 Gb/s filter
Option 140	1.250 Gb/s filter
Option 150	2.125 Gb/s filter
Option 160	2.488 Gb/s and 2.500 Gb/s filter
Option 170	2.666 Gb/s filter
Option 180	3.125 Gb/s filter
Option 190	4.25 Gb/s filter
Option 193	5.0 Gb/s filter
Option 195	6.25 Gb/s filter
Option 197	8.5 Gb/s filter

Optical Input

Calibrated Wavelengths	850 nm, 1310 nm, 1550 nm
Optical Connector	Keysight/Agilent Universal Optical Interface

Electrical Specifications

Nominal Electrical Input Impedance	50 Ω
Electrical Transition Time (20 GHz Bandwidth)	< 17.5 ps (10% to 90%, typical)
Electrical Transition Time (12.4 GHz Bandwidth)	< 28.2 ps (10% to 90%, typical)

Environmental

Storage Temperature	-40 °C to +70 °C
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TECHNOLOGY

Sampling Oscilloscope Plug-in

APPLICATIONS

SONET/SDH and datacom/enterprise transmitter compliance and waveform characterization up to 11.3 Gb/s

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