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Inputs

Dynamic range: ± 400 mV relative to channel offset

Maximum safe input: 16 dBm peak ac ± 2 V dc voltage (characteristic)

Nominal impedance: 50 ohm

Reflections: $\leq 5\%$ for 20 ps risetime

Connector: 2.4 mm (m)

Electrical Modules

HP 83480 Electrical Plug-in Modules

Plug-in Module	Electrical Channels	
	Number	Bandwidth GHz
HP 83483A	2	12 & 20
HP 83484A	2	26.5/50
HP 83484B	1	26.5/50
HP 54753A	1 TDR/Elec	12/18
	1 Elec.	12/20
HP 54754A	2 TDR/Elec.	12/18

HP 83483A dual 20 GHz electrical channel plug-in module

- Two electrical measurement channels
- 20 GHz and 12.4 GHz selectable bandwidth
- Trigger port

The HP 83483A provides two accurate measurement channels with user-selectable bandwidths. For optimum noise performance when measuring small signals, the 12.4 GHz setting is used. For highest accuracy and fidelity when measuring high-speed signals, the 20 GHz bandwidth setting is used.

Bandwidth (-3 dB): dc to 20 GHz or dc to 12.4 GHz (user-selectable)

Transition time (10% to 90%, calculated from $T_r = 0.35/\text{bandwidth}$, typical):

17.5 ps, 20 GHz mode; 28.2 ps, 12.4 GHz mode

Maximum noise (RMS):

12.4 GHz mode: ≤ 0.5 mV (0.25 mV typical)

20 GHz mode: ≤ 1 mV (0.5 mV typical)

Scale factor (full scale is eight divisions):

Minimum: 1 mV/div

Maximum: 100 mV/div

dc accuracy (Single voltage marker):

12.4 GHz mode: $\pm 0.4\%$ of full scale ± 2 mV $\pm 1.5\%$ of (reading-channel offset) $\pm (2\%/^{\circ}\text{C}) (\Delta T_{\text{cal}})$ (reading) $-0.4\%/hr (\Delta \text{time})$ (reading)⁵

20 GHz mode: $\pm 0.4\%$ of full scale ± 2 mV $\pm 3.0\%$ of (reading-channel offset) $\pm (2\%/^{\circ}\text{C}) (\Delta T_{\text{cal}})$ (reading) $-0.4\%/hr (\Delta \text{time})$ (reading)²

dc difference (two marker accuracy on the same channel):

12.4 GHz mode: $\pm 0.8\%$ of full scale $\pm 1.5\%$ of (reading-channel offset), $\pm 2\%/^{\circ}\text{C} (\Delta \text{temp}_{\text{cal}})$ (delta reading)

$-0.4\%/hr. (\Delta \text{time}_{\text{cal}})$ (reading)

20 GHz mode: $\pm 0.8\%$ of full scale $\pm 3\%$ of (reading-channel offset), $\pm 2\%/^{\circ}\text{C} (\Delta \text{temp}_{\text{cal}})$ (delta reading)

$-0.4\%/hr. (\Delta \text{time}_{\text{cal}})$ (reading)

dc offset range: ± 500 mV

Inputs

Dynamic range: ± 400 mV relative to channel offset

Maximum safe input voltage: 16 dBm peak ac ± 2 V dc (characteristic)

Nominal impedance: 50 ohm

Reflections: 5% for 30 ps rise time

Connector: 3.5 mm (m)

HP 83484A dual 50 GHz electrical channel plug-in module

- Two electrical measurement channels
- 50 GHz and 26.5 GHz selectable bandwidth
- Trigger port

Two electrical measurement channels, 50 GHz and 26.5 GHz selectable bandwidth, 2.5 GHz trigger port HP 83484A dual 50 GHz electrical channel plug-in module

HP 83484B single 50 GHz electrical channel plug-in module

- One electrical measurement channel
- 50 GHz and 26.5 GHz selectable bandwidth
- Trigger port

The HP 83484A/B plug-ins provide accurate, wide bandwidth measurement channels. For optimum noise performance when measuring small signals, the 26.5 GHz setting is used. For highest accuracy and fidelity when measuring very high-speed signals, the 50 GHz bandwidth setting is used.



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