DATA SHEET

DSOXBODE Blot Plot Training Kit

For Keysight InfiniiVision X-Series Oscilloscopes





KEYSIGHT TECHNOLOGIES

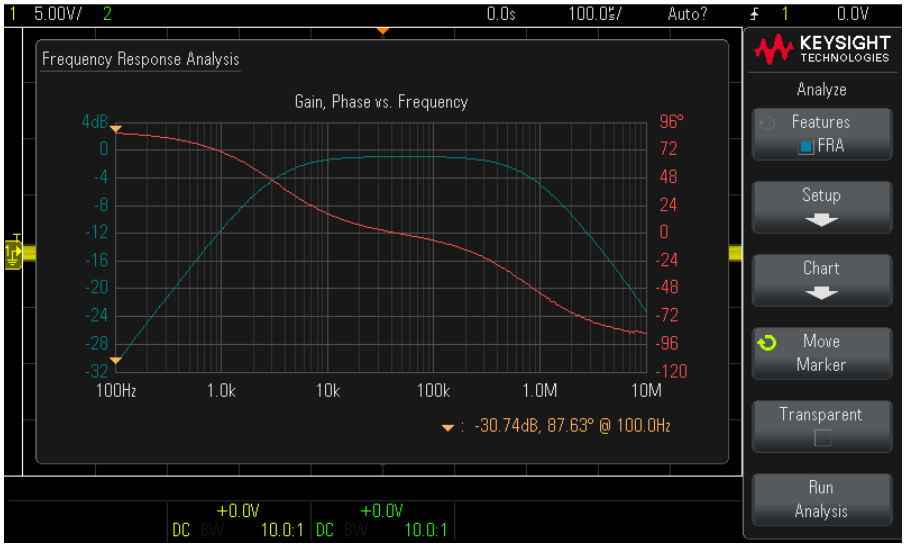
Learn How to Perform Frequency Response Analysis Measurements



The DSOXBODE Bode plot training kit can be used to train engineering students and other oscilloscope users on how to perform frequency response analysis measurements (gain & phase Bode plots) using Keysight's InfiniiVision oscilloscopes with the built-in WaveGen function generator. It includes a small training board consisting of a series R-L-C circuit with a BNC input that attaches directly to the output of the oscilloscope's WaveGen function generator. There are clearly labeled test points for probing VIN and BPFOUT (bandpass filter output) or LPFOUT (low-pass filter output).



Also included with this training kit is a comprehensive tutorial and lab guide that engineering students and professors can download at www.keysight.com/find/bode. This training guide begins with a tutorial on frequency response measurements with fill-in-the-blank questions, and then provides step-by-step lab instructions on how to perform Bode plots measurements — both manually and automatically — using Keysight InfiniiVision oscilloscopes. The screen image below shows a gain & phase versus frequency test on the bandpass filter output of the DSOXBODE using a DSOX1204G InfiniiVision oscilloscope.



The DSOXBODE Bode plot training kit is compatible with InfiniiVision X-Series "G" model oscilloscopes and all InfiniiVision 3000T, 4000A, and 6000A X-Series oscilloscopes licensed with any software option.

Performance Characteristics

All characteristics stated as typical

Parameter	Characteristic/Limits
Lower bandpass cutoff frequency	3.2 kHz
Center bandpass frequency	50 kHz
Upper cutoff frequency	800 kHz
Maximum input voltage	10 V_{PP} into 50 Ω
Input connection type	BNC
Probe test points	V_{IN} BPF_{OUT} $LPFF_{OUT}$ GND (2X)
Series L-C-R component values	L = 10 µH C = 1 µF R = 50 Ω

Ordering Information

Model Numbers	Descriptions
DSOXBODE	Bode plot training kit

Learn more at: www.keysight.com

For more information on Keysight Technologies' products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

KEYSIGHT TECHNOLOGIES

This information is subject to change without notice. © Keysight Technologies, 2020, Published in USA, June 29, 2020, 3120-1394.EN