

Gain/phase measurement with no correction

Frequency Response Analyser

Signal Generator

- Start Frequency: 100
- Stop Frequency: 65M
- Sig Gen Amp: 2
- Sig Gen Offset: 0
- Steps / decade: 20
- Sweep Action: Once
- Sweep amplitude: Constant
- Coax Termination: 50 Ohm
- Use CS700A/CS701 Power

Options

- FRA System ON
- Amplitude/Power in dB:
- Auto Ampl Axis Setup:
- Log Frequency Axis:
- Connect Measure Points:
- Input Coupling: DC
- Response V Goal: 10m
- Auto Ampl Limit: 5
- Max Measurement Bandwidth: 1 kHz

Amplitude Table

Freq	Amp
100	2
1k	1
10k	250m
100k	100m
500k	50m
5M	25m
65M	10m

Frequency Analysis

Analysis Type: Gain/Phase

Use: Probe Corr

Actions

Frequency: 65M Hz

Start Sweep

Measurements

Probe Measurement

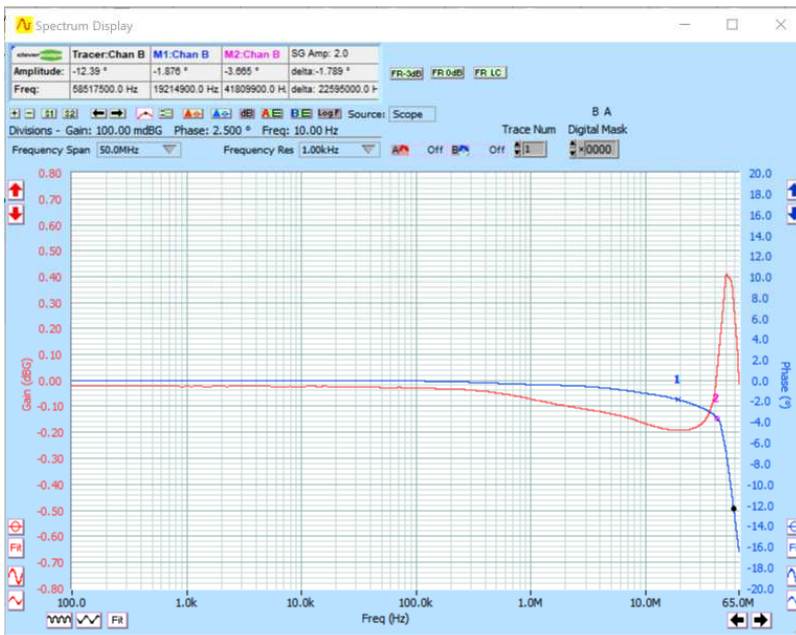
Coax Measurement

Use m = 1e-3, k = 1e3, M = 1e6

FRA State: Complete

Response V: 250.8m

Response SNR: 129.1



Probe Correction Made

Frequency Response Analysis

Frequency Response Analyser

Signal Generator

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 Sig Gen Amp: 2
 Sig Gen Offset: 0
 Steps / decade: 20
 Sweep Action: Once
 Sweep amplitude: Constant
 Coax Termination: 50 Ohm

Use CS700A/CS701 Power

Options

FRA System ON

Amplitude/Power in dB
 Auto Ampl Axis Setup
 Log Frequency Axis
 Connect Measure Points

Input Coupling: **DC**

Response V Goal: 10m
 Auto Ampl Limit: 5
 Max Measurement Bandwidth: 1 kHz

Amplitude Table

Freq	Amp
100	2
1k	1
10k	250m
100k	100m
500k	50m
5M	25m
65M	10m

Auto Fill Log Amp Fill

Frequency Analysis

Analysis Type Use: ?

Calibrate Probe Corr
 Probes Fixture Corr

Actions

Frequency: 65M Hz Clear Spectra

Start Sweep

Calibrate Probes

Chan B
 Chan A

or

500
 C \$1070

Calibrate Coax

Chan B
 Coax
 Chan A

500
 C \$1070

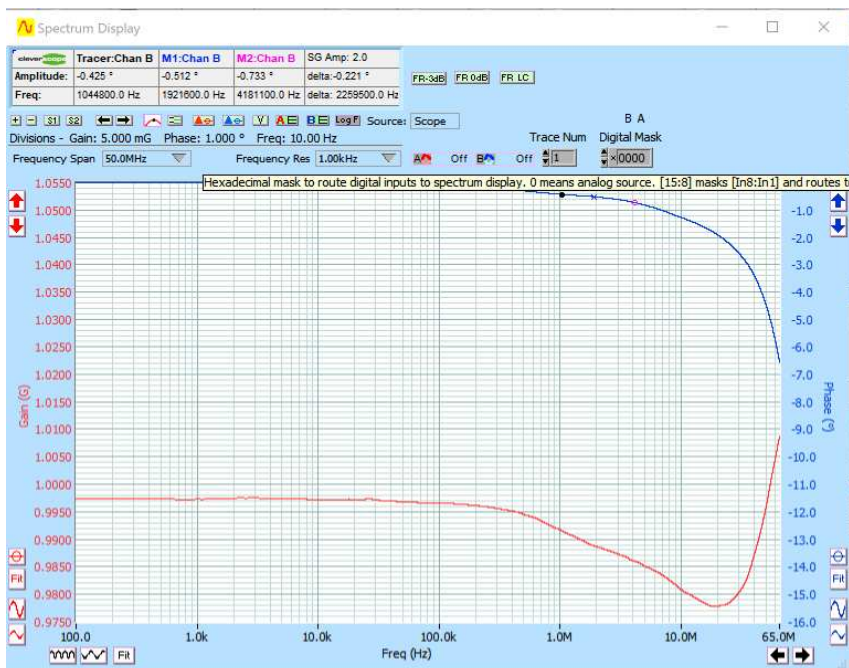
R Termination: 50 Ohm

Use m = 1e-3, k = 1e3, M = 1e6

FRA State: Complete

Response V: 107.8m

Response SNR: 126.7



Gain/phase measurement with correction taken into account

Frequency Response Analysis

Frequency Response Analyser

Signal Generator

Start Frequency: 100
Stop Frequency: 65M
Sig Gen Amp: 2
Sig Gen Offset: 0
Steps / decade: 20
Sweep Action: Once
Sweep amplitude: Constant
Coax Termination: 50 Ohm
Use CS700A/CS701 Power

Options

FRA System ON

Amplitude/Power in dB
Auto Ampl Axis Setup
Log Frequency Axis
Connect Measure Points

Input Coupling: DC

Response V Goal: 10m
Auto Ampl Limit: 5
Max Measurement Bandwidth: 1 kHz

Amplitude Table

Freq	Amp
100	2
1k	1
10k	250m
100k	100m
500k	50m
5M	25m
65M	10m

Log Amp Fill

Frequency Analysis

Analysis Type: Gain/Phase
Use: Probe Corr, Fixture Corr

Actions

Frequency: 65M Hz
Start Sweep

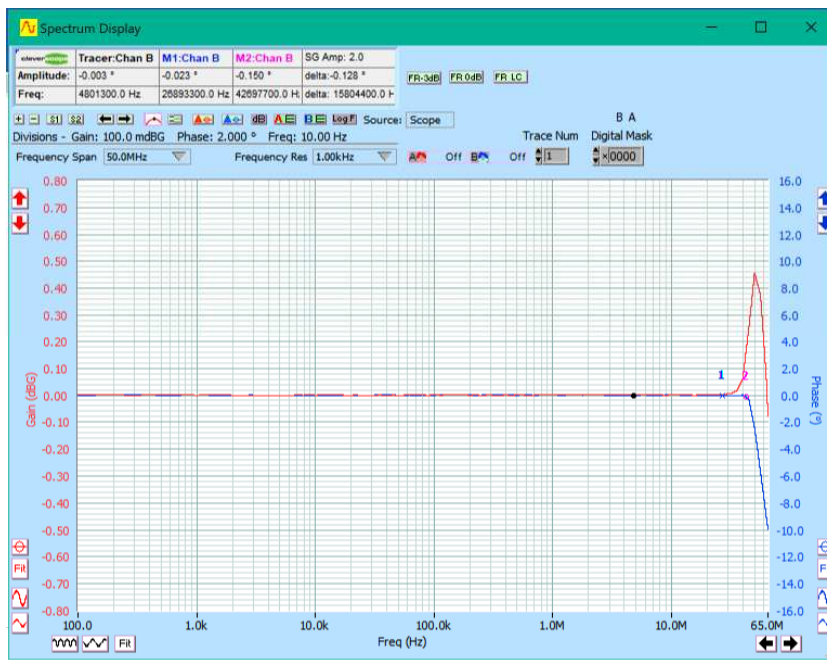
Measurements

Probe Measurement
Chan A Chan B
Stimulus Response

Coax Measurement
Chan A Chan B
Stimulus Response

Use m = 1e-3, k = 1e3, M = 1e6

FRA State: Complete
Response V: 251m
Response SNR: 125,8



Filter added that came with unit and Probe Calibration performed

Frequency Response Analyser

Signal Generator

Start Frequency: 100
 Stop Frequency: 65M
 Sig Gen Amp: 2
 Sig Gen Offset: 0
 Steps / decade: 20
 Sweep Action: Once
 Sweep amplitude: Constant
 Coax Termination: 50 Ohm
 Use CS700A/CS701 Power

Options

FRA System ON

Amplitude/Power in dB
 Auto Ampl Axis Setup
 Log Frequency Axis
 Connect Measure Points

Input Coupling: **DC**

Response V Goal: 10m
 Auto Ampl Limit: 5
 Max Measurement Bandwidth: 100 Hz

Amplitude Table

Freq	Amp
100	2
1k	1
10k	250m
100k	100m
500k	50m
5M	25m
65M	10m

Auto Fill Log Amp Fill

Frequency Analysis

Analysis Type Use: Calibrate Probes Probe Corr Fixture Corr

Actions

Frequency: 65M Hz

Calibrate Probes

Chan B Chan A

or 300 C#1070

Calibrate Coax

Chan B Chan A

Coax 300 C#1070

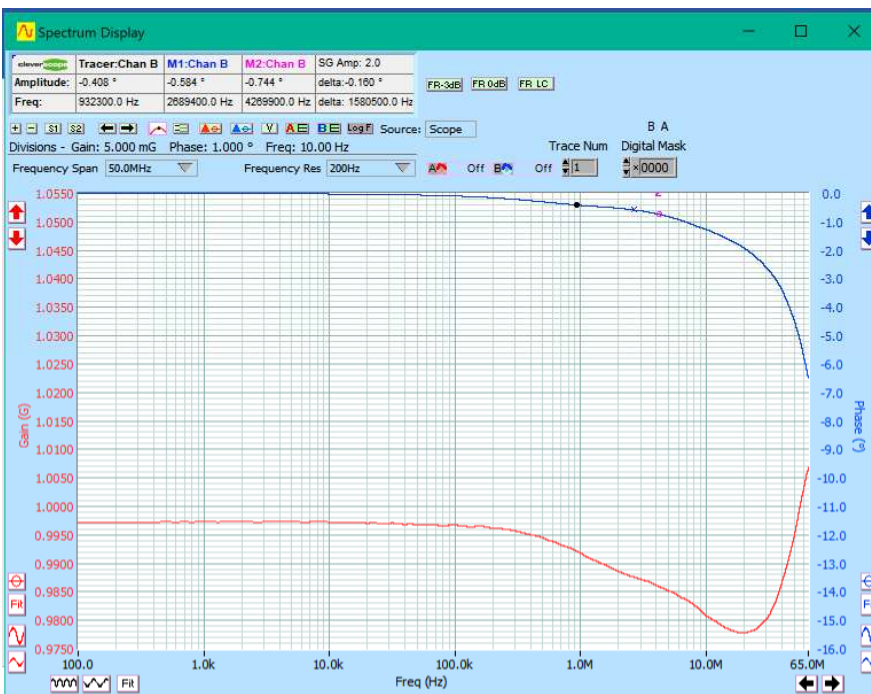
R Termination: 50 Ohm

Use m = 1e-3, k = 1e3, M = 1e6

FRA State: Complete

Response V: 97.8m

Response SNR: 213.7



Gain/phase measurement made after probe correction with filter added that came with unit. Results are much better.

Frequency Response Analyser

Signal Generator

Start Frequency: 100
 Stop Frequency: 65M
 Sig Gen Amp: 2
 Sig Gen Offset: 0
 Steps / decade: 20
 Sweep Action: Once
 Sweep amplitude: Constant
 Coax Termination: 50 Ohm
 Use CS700A/CS701 Power

Options

FRA System ON

Amplitude/Power in dB
 Auto Ampl Axis Setup
 Log Frequency Axis
 Connect Measure Points

Input Coupling: DC

Response V Goal: 10m
 Auto Ampl Limit: 5
 Max Measurement Bandwidth: 100 Hz

Amplitude Table

Freq	Amp
100	2
1k	1
10k	250m
100k	100m
500k	50m
5M	25m
65M	10m

Frequency Analysis

Analysis Type: Gain/Phase
 Use: Probe Corr

Actions

Frequency: 65M Hz
 Start Sweep

Measurements

Probe Measurement
 Chan A Chan B
 Stimulus Response

Coax Measurement
 Chan A Chan B
 Stimulus Response

Use m = 1e-3, k = 1e3, M = 1e6
 FRA State: Complete
 Response V: 199.8m
 Response SNR: 174.5

