

PA-699 Current Probe testing:

Noise:

1ms peak-captured trace, 20MHz BW:

1V/A:

~6mVp-p (i.e. 6mA_{p-p})

~850uV stdev

0.1V/A:

~750uVp-p (i.e. 7.5mA_{p-p})

~100uV stdev

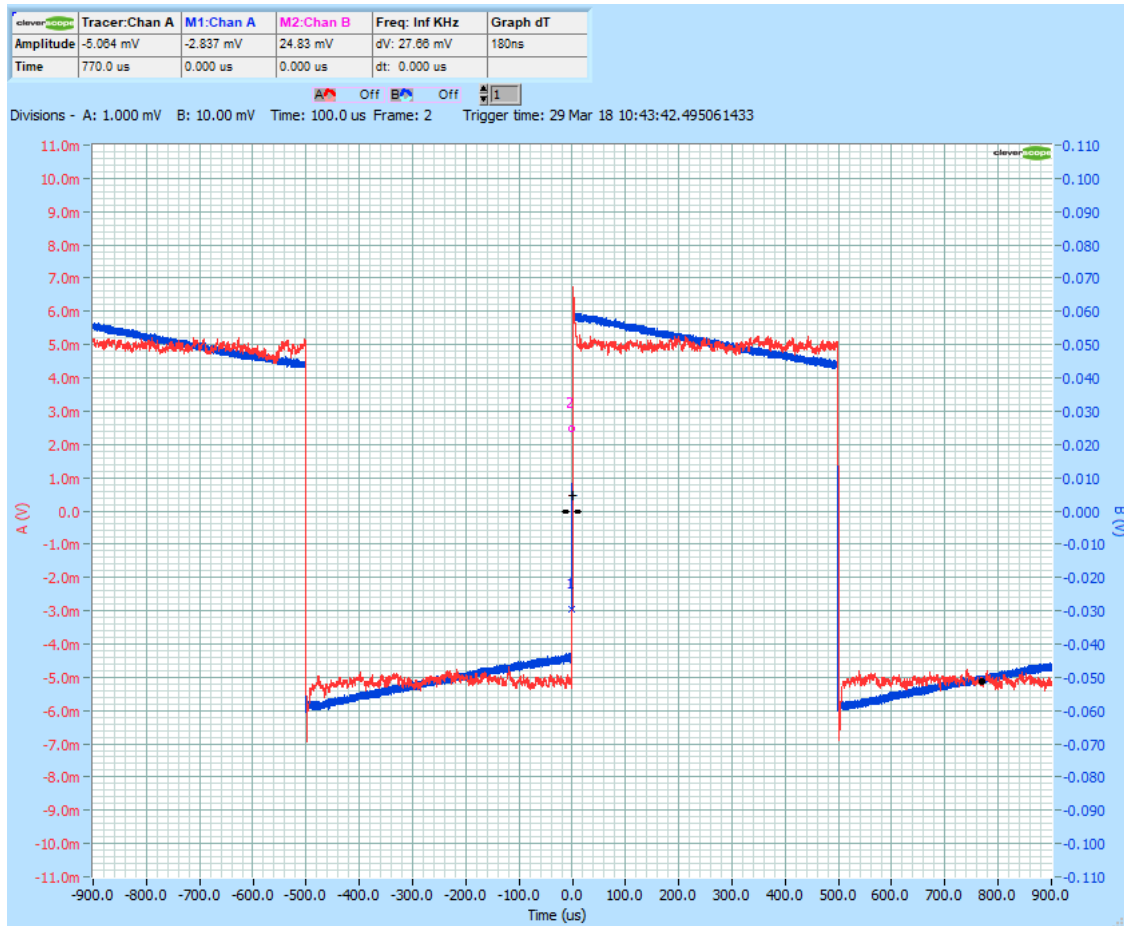
Max trace movement when shifting probe:

1V/A: ~80mV (80mA) swing in output (i.e. +/- 40mV when trace centred in neutral position)

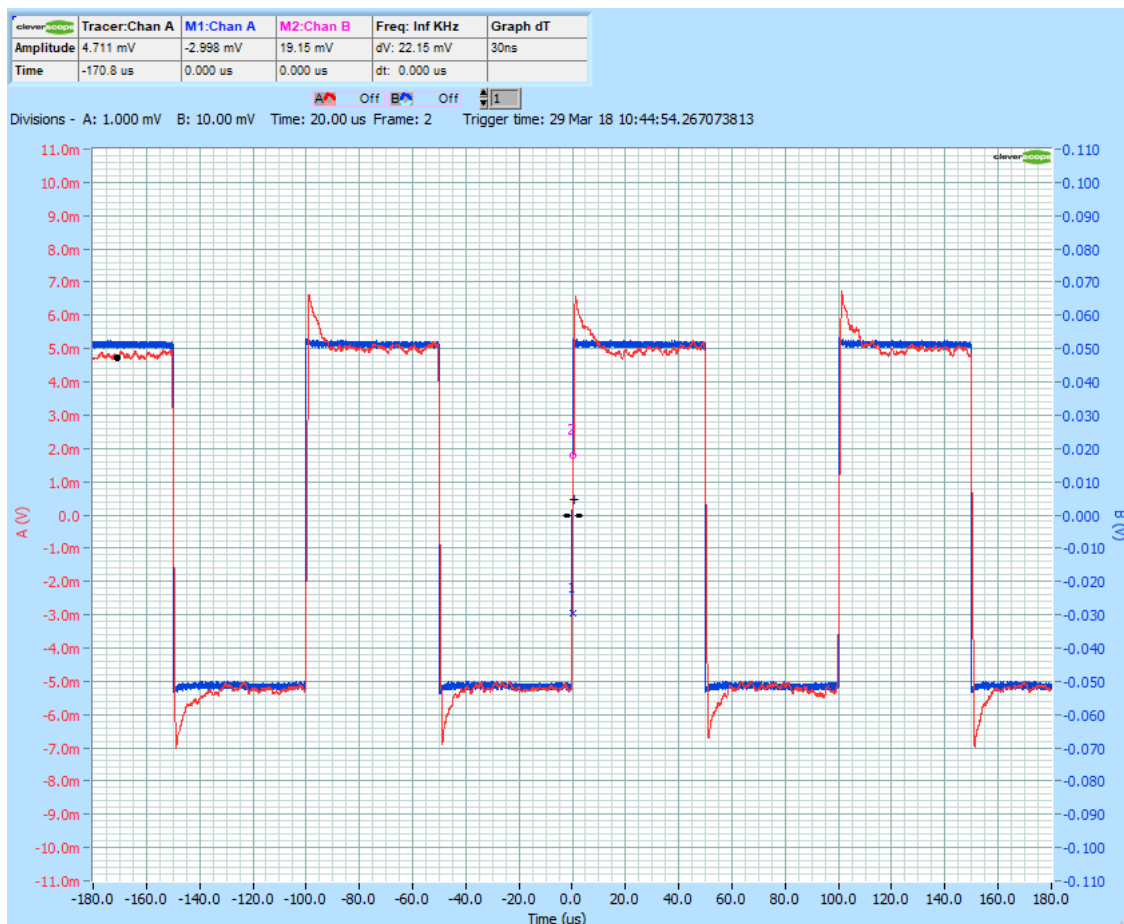
0.1V/A: ~8mV (80mA) swing in output

Square wave response: 0.1V/A :

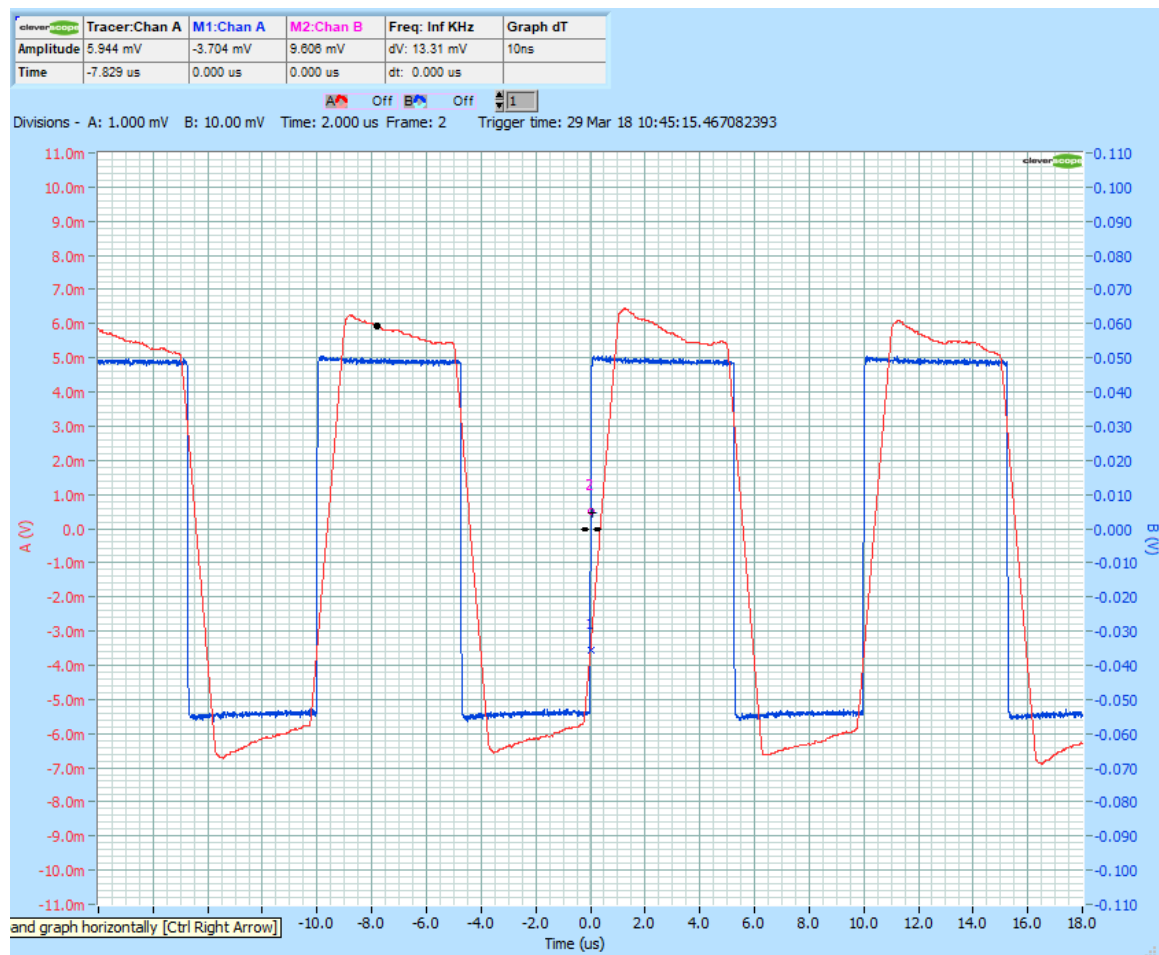
1kHz 100mAp-p, Red trace = PA699, blue is reference CT (300Hz low freq -3dB point causing droop @1kHz):



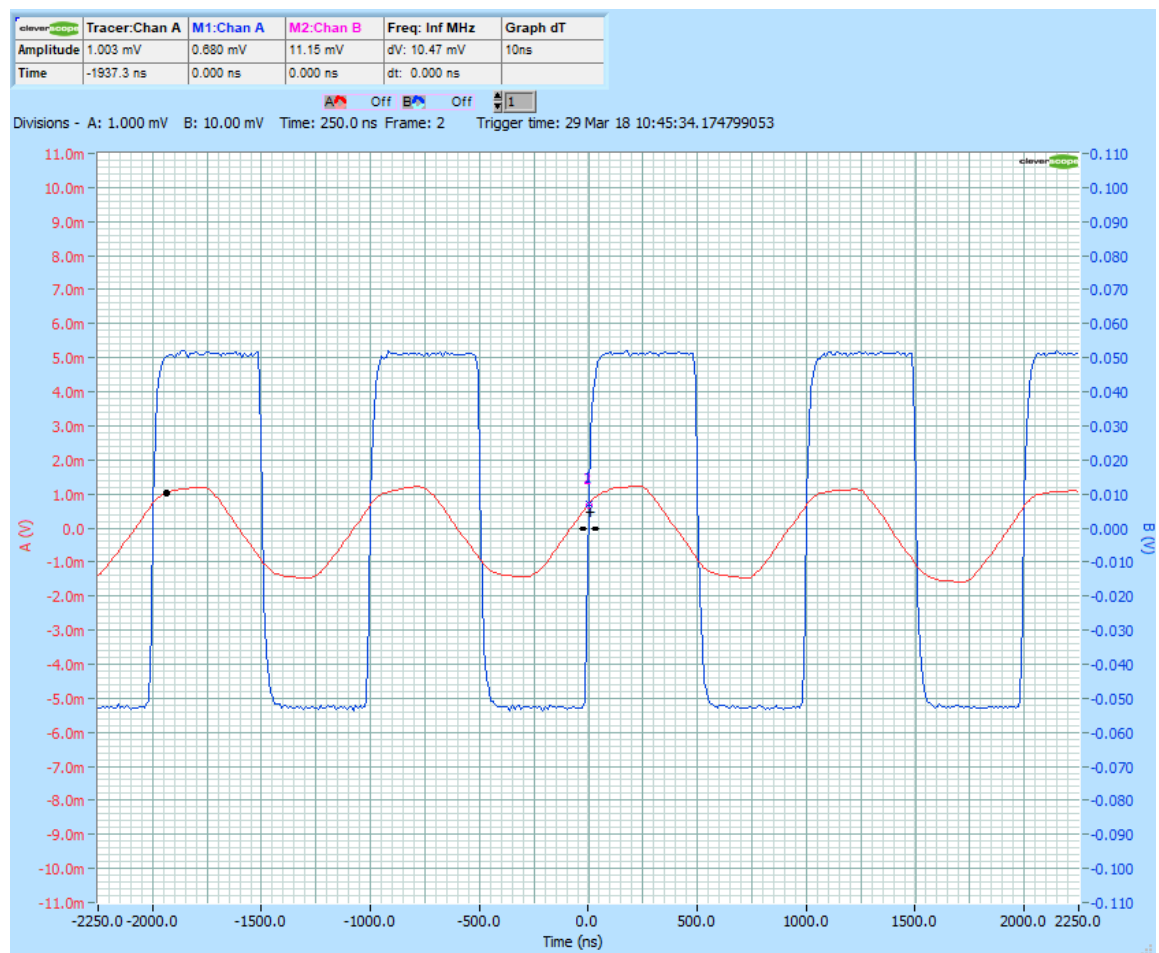
10k:



100k:

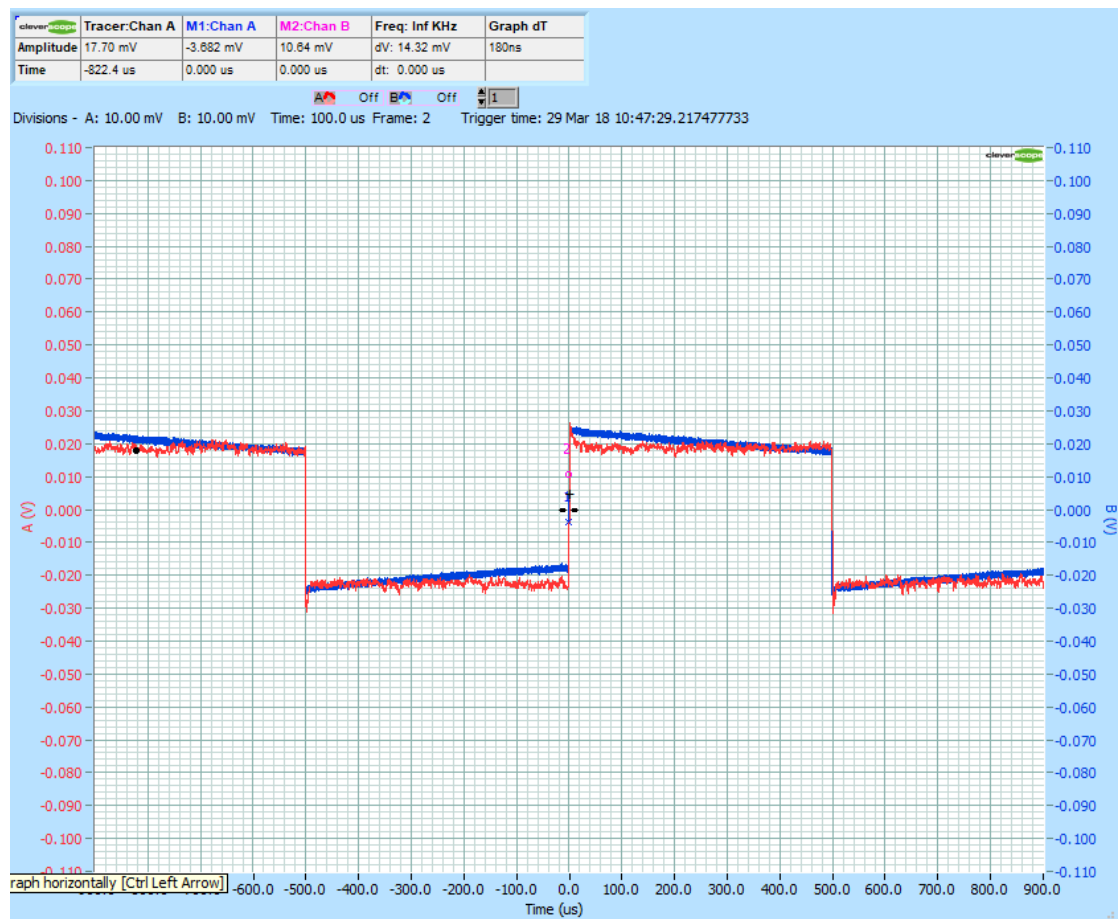


1M:

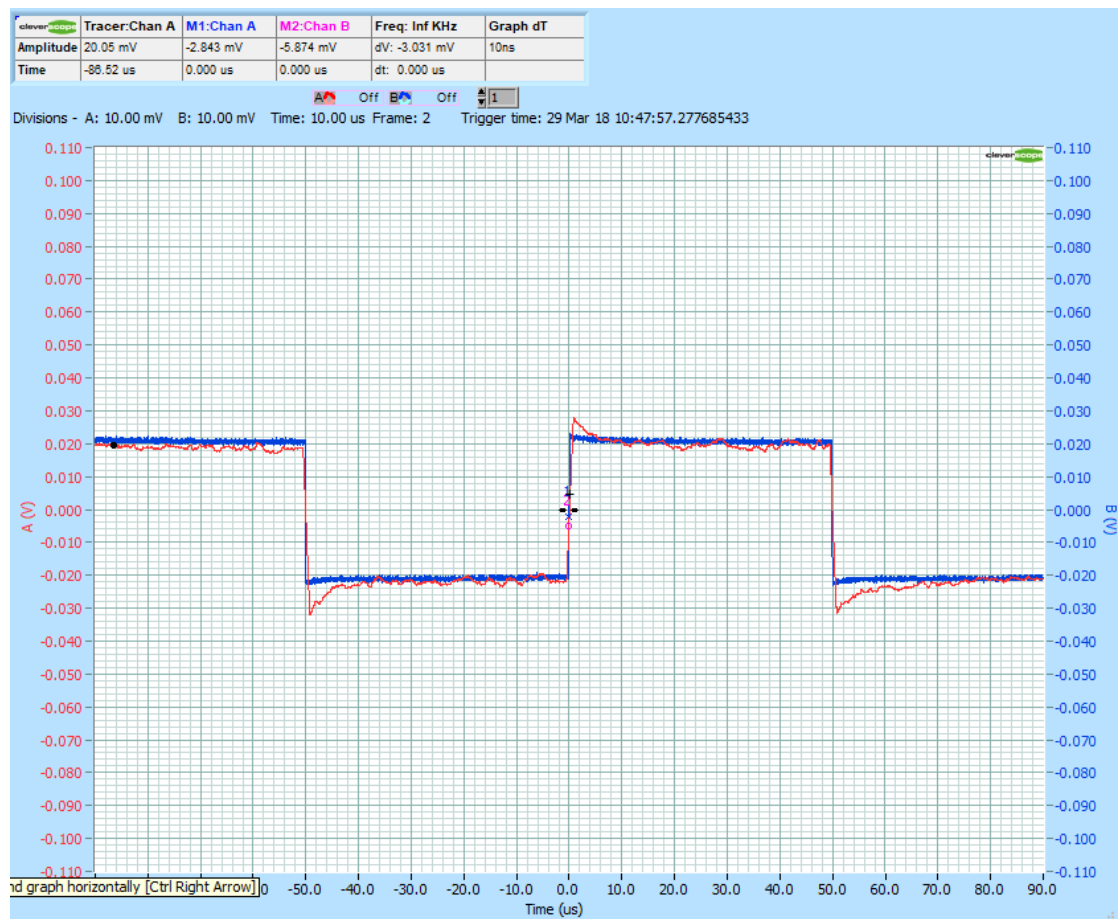


1V/A:

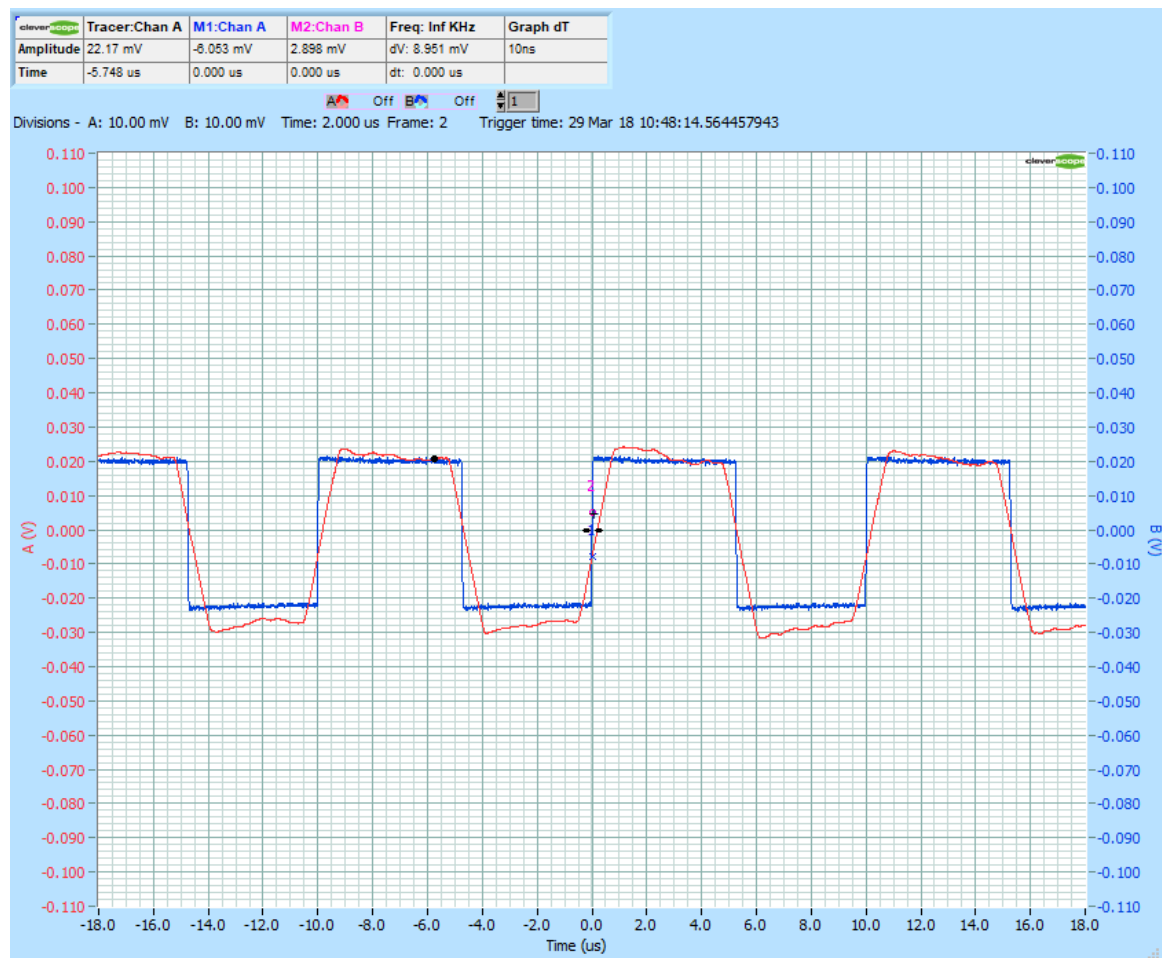
1k:



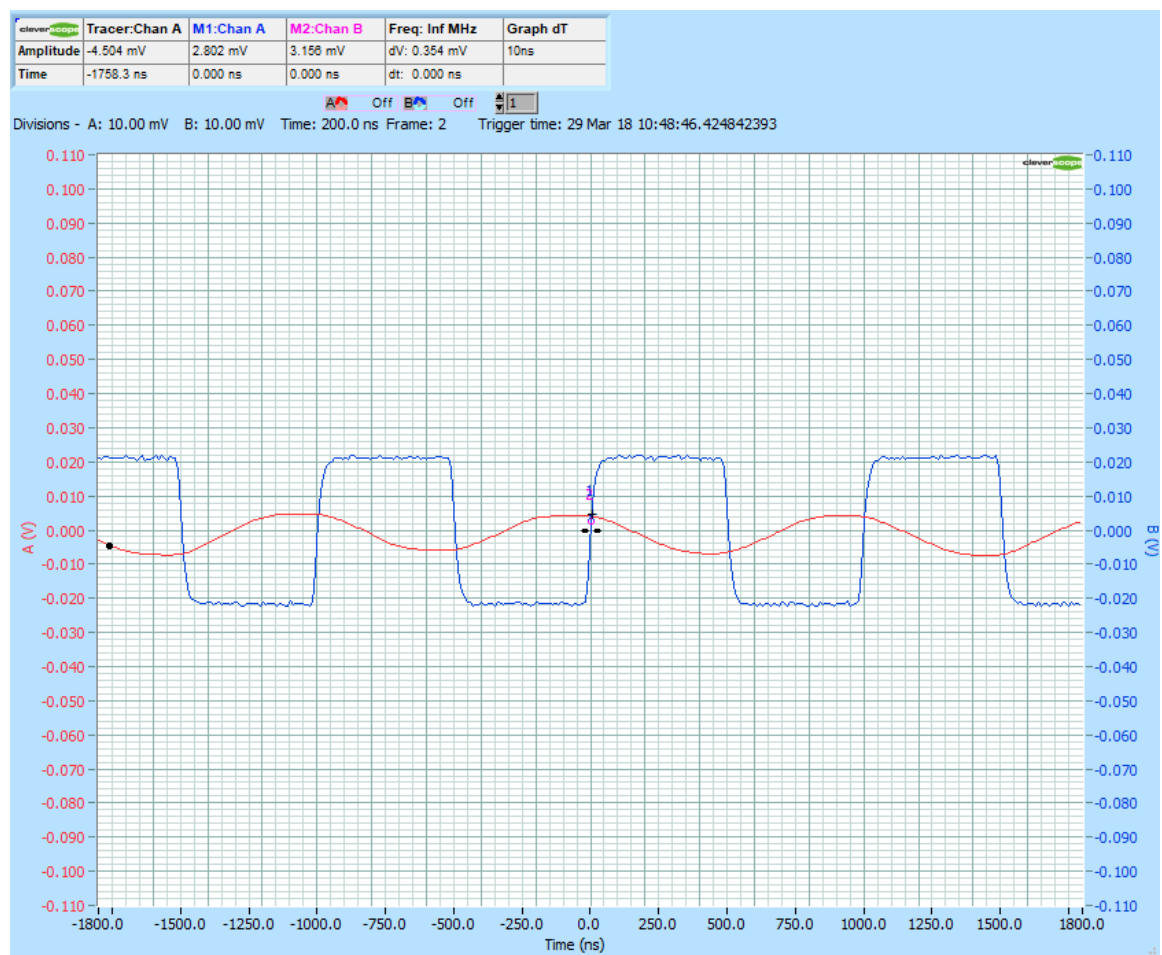
10k:



100k:

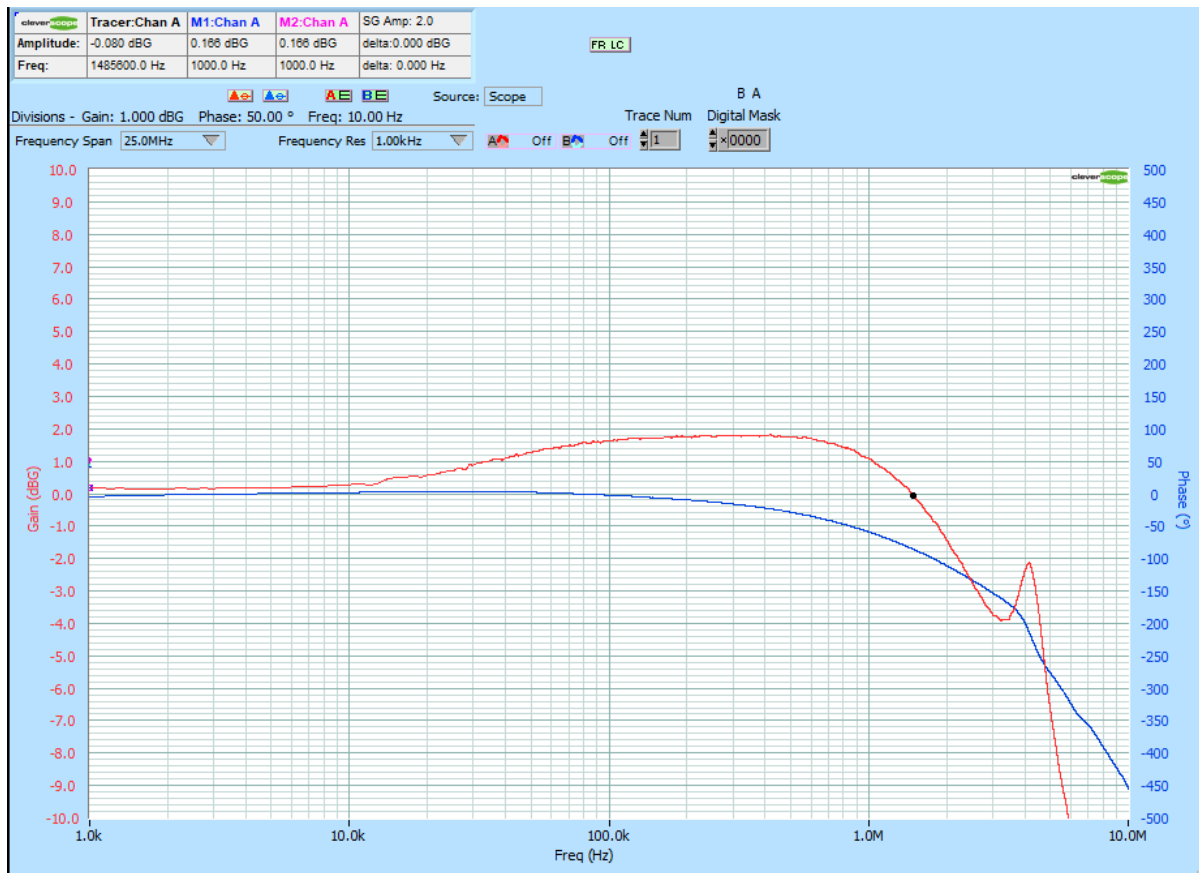


1M:

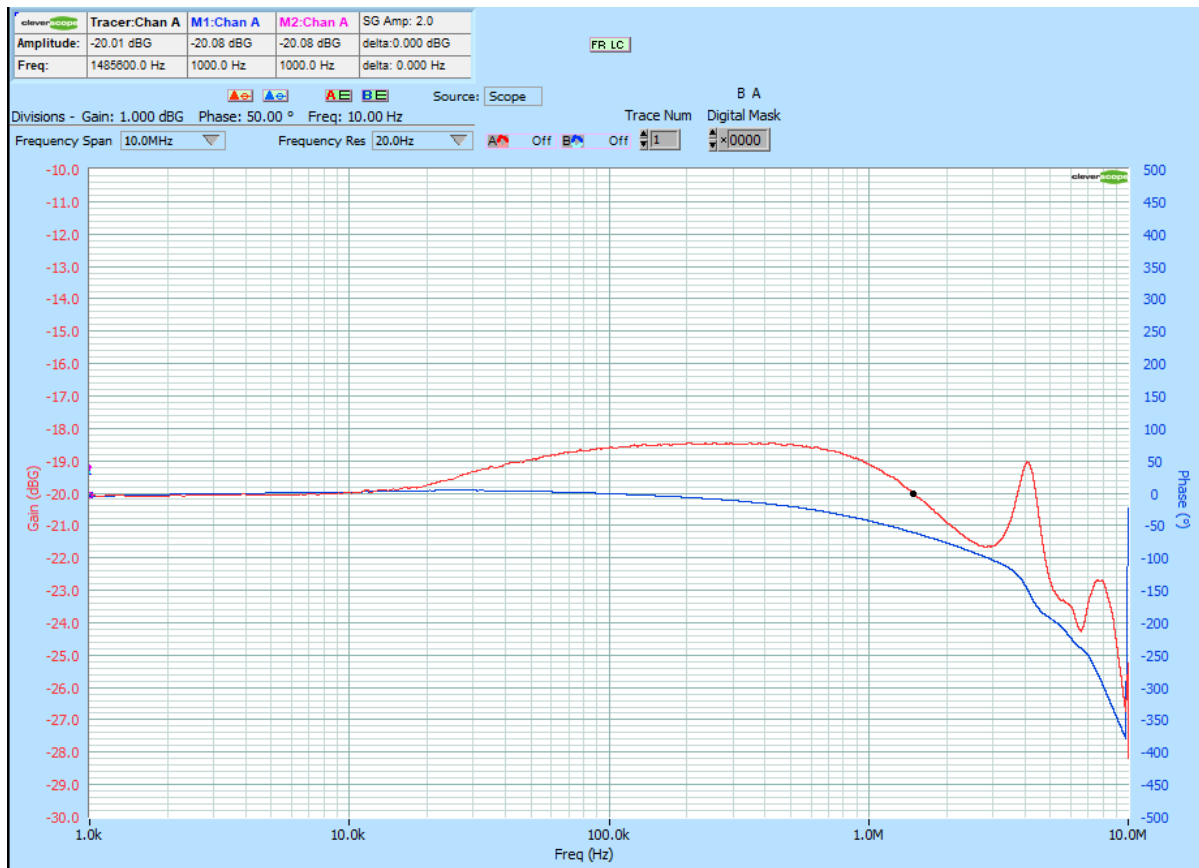


Frequency Response:

1V/A:



0.1V/A:



Test Setup:



Note: Green CT (used as reference) is a Pearson model 2877 with -3dB points of 300Hz and 200MHz and very flat response.