AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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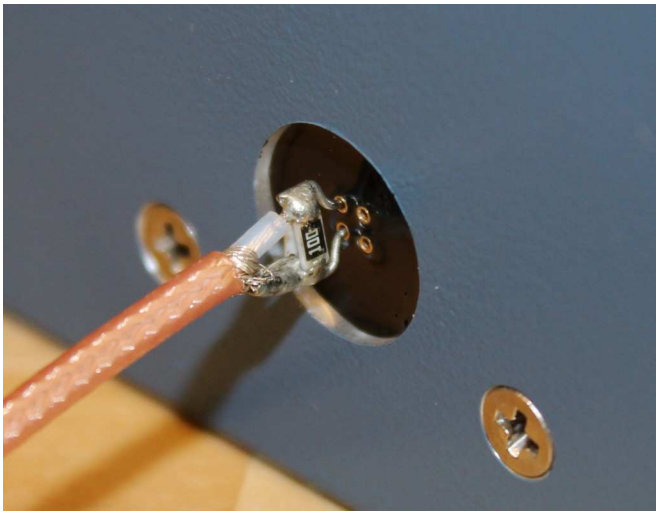
BOX 5120, LCD MERIVALE
OTTAWA, CANADA K2C3H5

PERFORMANCE CHECKSHEET

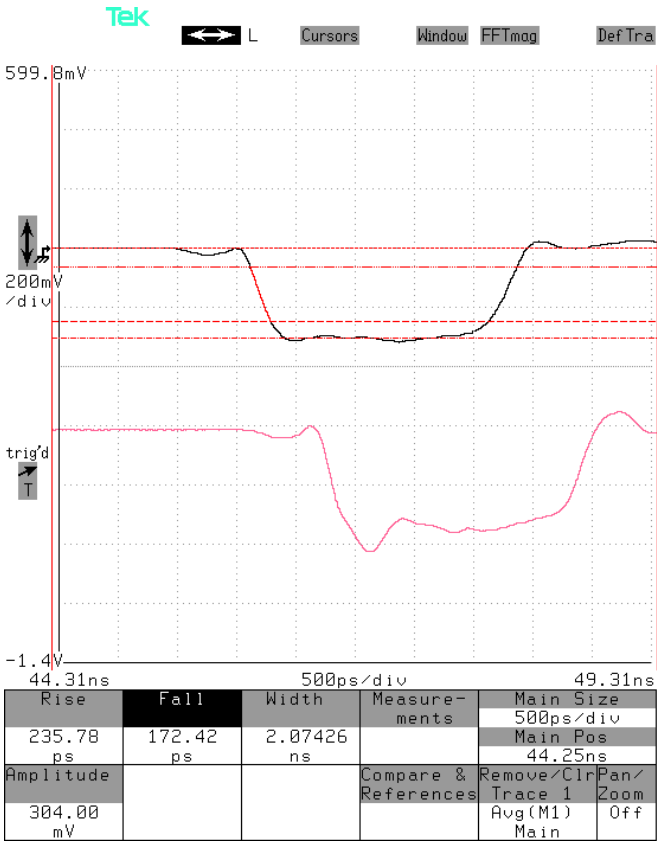
Model: AVX-S1-P0-HIK1A-MD-INV
Type: High-Bandwidth Output Module
S.N.: 13940
Date: December 16, 2019

Rise Time and Anode/Cathode Continuity Check

Test method: Short leads are soldered across two 10Ω chip resistors in parallel. A coaxial cable is soldered across the resistor. The signal lead is inserted into the LD- pin socket. The ground lead is inserted into the grounded pin socket. The total effective resistor is 5 Ω || 50 Ω (R_{SCOPE}) = 4.5 Ω.



Pulse source:
AVO-9A3-B-P-P1B-T1B, S/N 13939.



Top waveform: Voltage across the parallel combination of the 4.5 Ω effective resistance. It should be approximately -(+40V / 54.5Ω) × 4.5Ω = -3.3V in amplitude. The actual output is ~10% less, due to losses in the inverting transformer.

Bottom waveform: “MI” output, approximately +40V / 11.

Both: 500 ps/div, 2 V/div (200 mV/div × 20 dB).