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NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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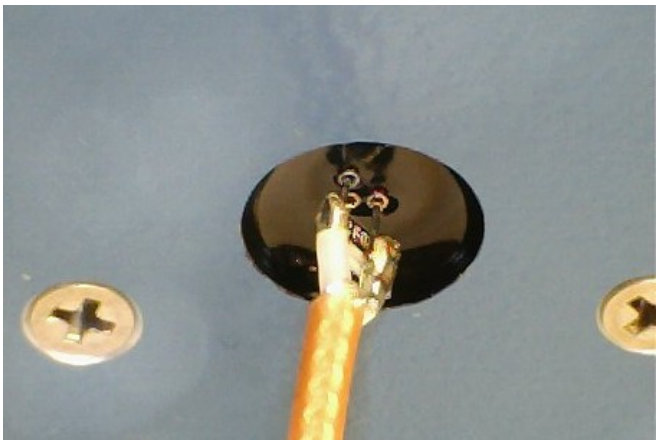
CANADA K2C 3H5

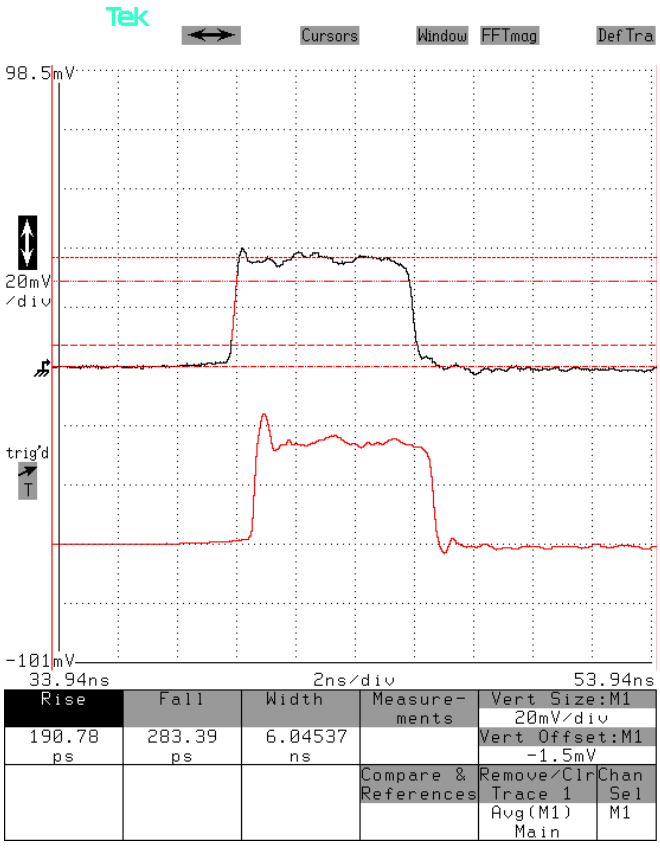
PERFORMANCE CHECKSHEET

Model: AVX-S1-P2-EX1
Type: High-Bandwidth Output Module
S.N.: 13118
Date: February 10, 2014

Rise Time and Anode/Cathode Continuity Check

Test method: Short leads are soldered to a 12Ω chip resistor. A coaxial cable is soldered across the resistor. The signal lead is inserted into the anode pin socket. The grounded lead is inserted into the cathode pin socket. The total effective resistor is 12 Ω || 50 Ω (R_{SCOPE}) ≈ 9.7 Ω.





Top: Voltage measured across the resistor in response to a +20V, 6 ns pulse applied from an AVMR-2D-B-OT-PN-M-3YW pulse generator. It should be approximately (+20V / 50Ω) × 9.7Ω = +3.9V, which agrees with the observed waveform. 2V/div (= 20 mV/div × 40 dB), 2 ns/div.

Bottom: “MI” output, approximately +20V / 11. 1V/div (= 100 mV/div × 20 dB), 2 ns/div.