AVTECH ELECTROSYSTEMS LTD.
NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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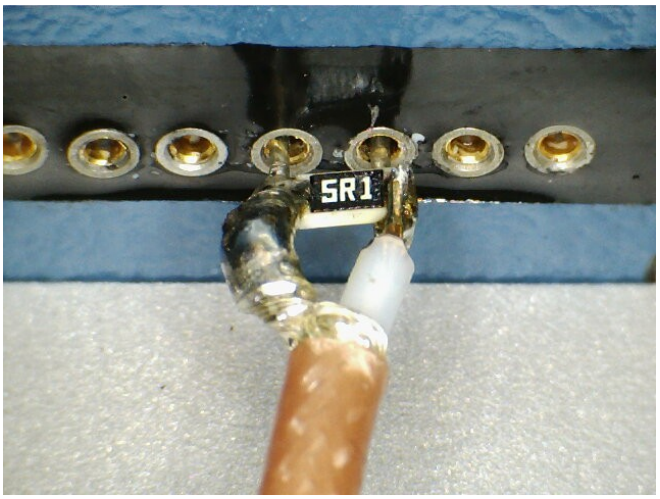
OTTAWA, ONTARIO
CANADA K2C 3H5

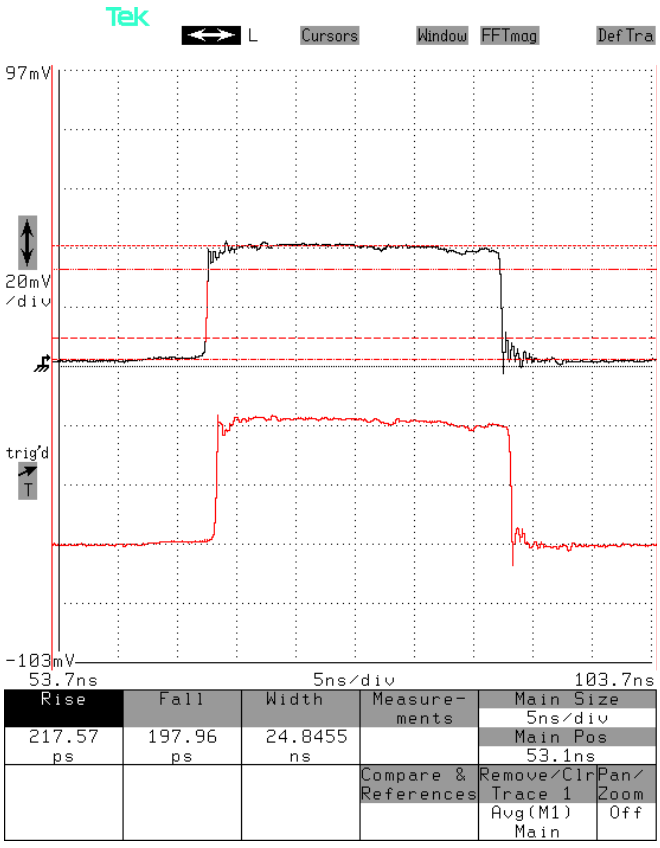
PERFORMANCE CHECKSHEET

Model: AVX-S1-P1B-T1B
Type: High-Bandwidth Output Module
S.N.: 13592
Date: July 10, 2017

Rise Time and Anode/Cathode Continuity Check

Test method: Short leads are soldered to a 5.1Ω 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 5.1 Ω || 50 Ω (R_{SCOPE}) = 4.6 Ω.





Top: Voltage measured across the resistor in response to a +5V pulse applied from an Avtech AV-1030-C pulse generator. It should be approximately (+5V / 54.6Ω) × 4.6Ω = 420 mV, which agrees with the observed waveform. 200 mV/div (= 20 mV/div × 20 dB), 5 ns/div.

Bottom: “MI” output, approximately +5V / 11. 200 mV/div (= 20 mV/div × 20 dB), 5 ns/div.