



# AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS  
SINCE 1975

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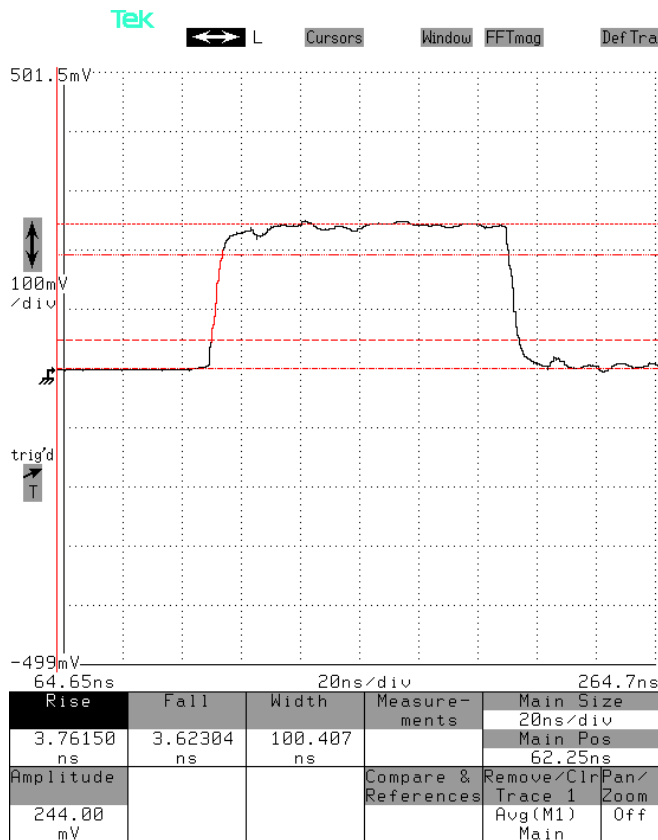
## PERFORMANCE CHECKSHEET

Model: AVX-MRB4  
Type: Current-Quadrupling Pulse Transformer  
S.N.: 13607  
Date: August 21, 2017

Impedance match: 50 Ω to 12.5 Ω  
Maximum input: 400V  
Maximum output: 200V / 16A  
Maximum pulse width: 5 us  
Rise time (20%-80%): < 5 ns  
Drop: < 5 %

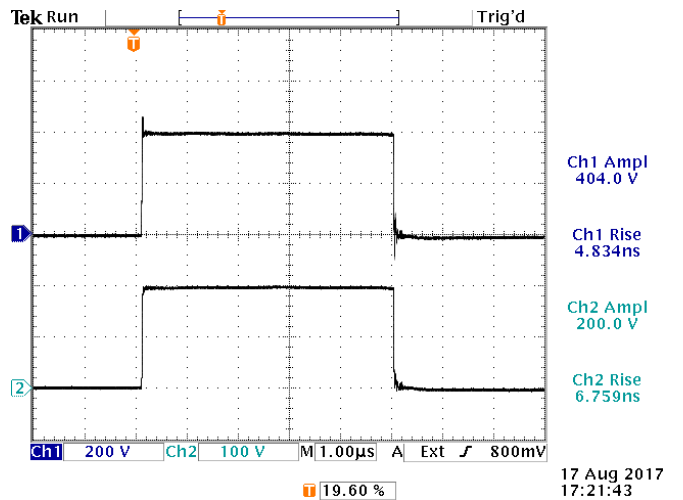
Basic specifications: →

### Rise Time Test



Output of AVX-MRB4-B into 12.5 Ohms, in response to a 500 mV pulse with ~300 ps rise time (from model AV-1030-B).  
100 mV/div, 20 ns/div.

### Wide High-Voltage Pulse Test



Top: +400V, 5 us pulse from model AVRZ-5W-B. 200 V/div, 1 us/div.

Bottom: +200V output from AVX-MRB4 into a 12.5 Ohm load. 100 V/div, 1 us/div.

The output rise time should be less than:  
 $\sqrt{(4.834^2 + 5^2)} = 6.955$  ns. The observed output rise time is 6.759 ns, meeting the specification.