



AVTECH ELECTROSYSTEMS LTD.

NANOSECOND WAVEFORM ELECTRONICS
SINCE 1975

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PERFORMANCE CHECKSHEET

Model: AVP-3SA-C-PN-AT-EA-M-OT-AC02
Type: Ultra-High-Speed Pulse Generator
S.N.: 12464
Date: July 14, 2010

Output Amplitude: 0 to $\pm 10V$, to 50Ω
Pulse Width (FWHM): 0.2 – 4 ns
Rise Time (20%-80%): ≤ 50 ps
Fall Time (80%-20%): ≤ 250 ps
PRF: 100 Hz - 1 MHz
Jitter, Stability: OK
Prime Power: 100-240V AC, 50-60 Hz.

Basic specifications: →

Test Waveforms

4 ns, > +10V, 100 kHz,

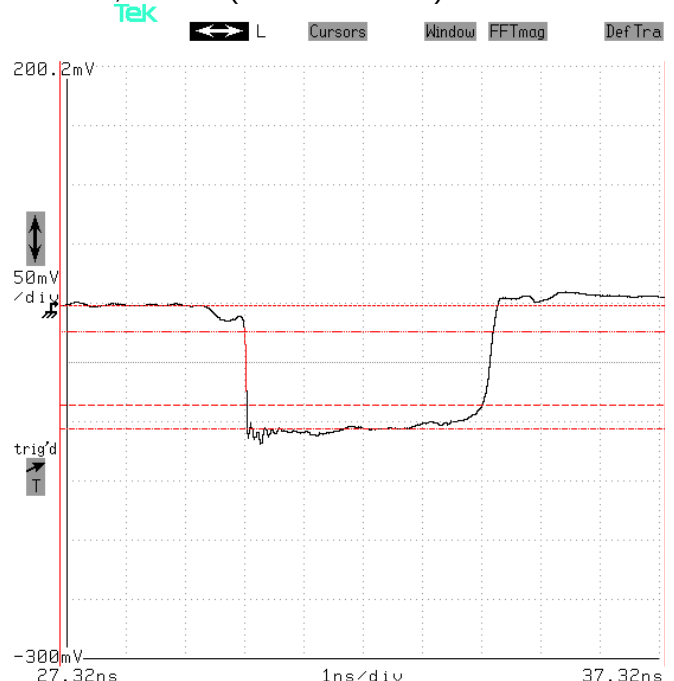
4 ns, > -10V, 100 kHz,

1 ns/div, 5 V/div (50 mV \times 40 dB):

1 ns/div, 5 V/div (50 mV \times 40 dB):



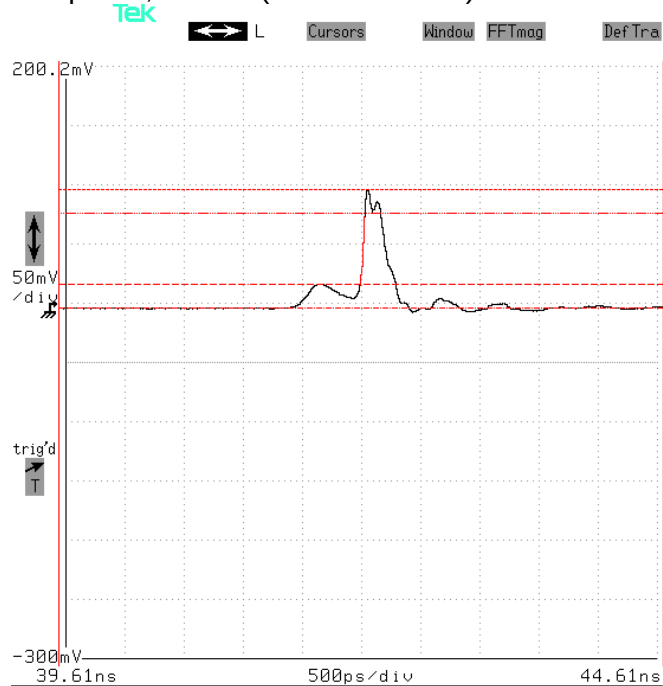
Rise	Fall	Width	Measurements	Vert Size:M1
47.92 ps	238.96 ps	4.13261 ns		50mV/div
Amplitude			Compare & References	Vert Offset:M1 -49.75mV
104.00 mV				Remove/Clr Trace 1 Sel Avg(M1) M1



Rise	Fall	Width	Measurements	Main Size
191.39 ps	41.98 ps	4.10966 ns		1ns/div
Amplitude			Compare & References	Main Pos 27.2ns
104.00 mV				Remove/Clr Trace 1 Pan/Zoom Avg(M1) Off

< 0.2 ns, +10V, 100 kHz,

500 ps/div, 5 V/div (50 mV × 40 dB):



Rise	Fall	Width	Measurements	Main Size	
42.66 ps	127.91 ps	188.70 ps		500ps/div	
				Main Pos	
				39.55ns	
Amplitude			Compare & References	Remove/Clear Trace 1	Pan/Zoom
100.00 mV				Avg(M1)	Off

< 0.2 ns, -10V, 100 kHz,

500 ps/div, 5 V/div (50 mV × 40 dB):



Rise	Fall	Width	Measurements	Main Size	
112.10 ps	42.51 ps	136.58 ps		500ps/div	
				Main Pos	
				27.5ns	
Amplitude			Compare & References	Remove/Clear Trace 1	Pan/Zoom
102.00 mV				Avg(M1)	Off