



P.O. BOX 265
OGDENSBURG, NY
U.S.A. 13669-0265

TEL: 888-670-8729 (USA & Canada) or +1-613-686-6675 (Intl)
FAX: 800-561-1970 (USA & Canada) or +1-613-686-6679 (Intl)

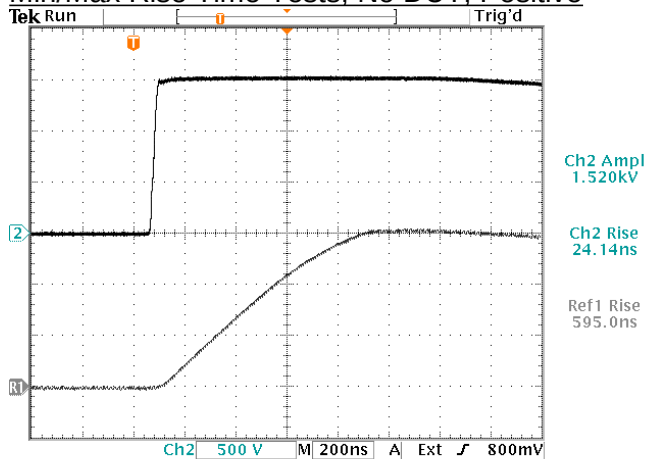
BOX 5120, LCD MERIVALE
OTTAWA, ONTARIO
CANADA K2C 3H5

info@avtechpulse.com - http://www.avtechpulse.com/

PERFORMANCE CHECKSHEET

Model: AVRQ-4-B-VXI-AC03
Type: Common Mode Transient Immunity (CMTI) Test for Opto-Couplers
S.N.: 13197
Date: August 26, 2014

Min/Max Rise Time Tests, No DUT, Positive

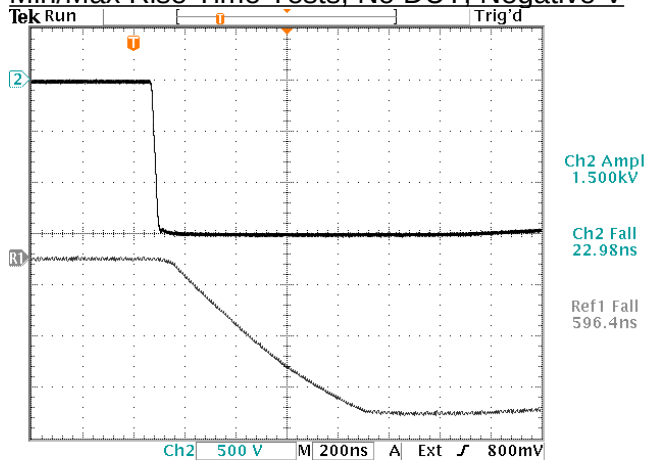


26 Aug 2014
08:19:36

Top: minimum rise time setting, +1.5 kV
Bottom: maximum rise time setting, +1.5 kV

- a) Output Signal Amplitude: ± 1 kV, ± 1.5 kV
- b) Rise Time (10%-90%): 25 ns - 250 ns
- c) PRF: 1 Hz - 10 Hz
- d) Jitter, Stability: OK
- e) Prime Power: 100-240V AC, 50-60 Hz.

Min/Max Rise Time Tests, No DUT, Negative V

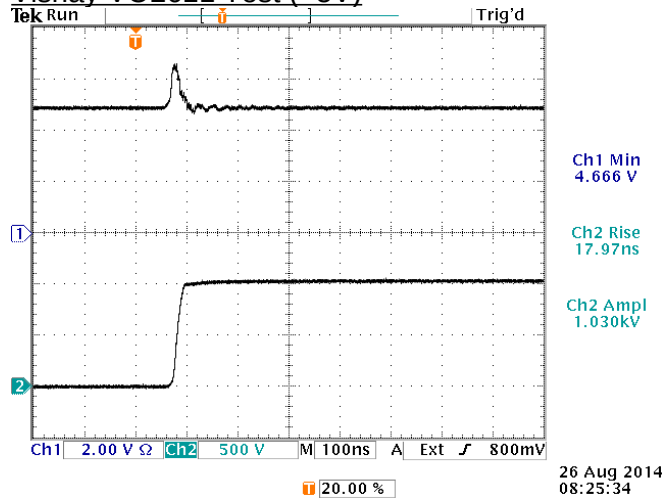


26 Aug 2014
08:21:09

Top: minimum rise time setting, -1.5 kV
Bottom: maximum rise time setting, -1.5 kV

References levels: 10%, 90%.

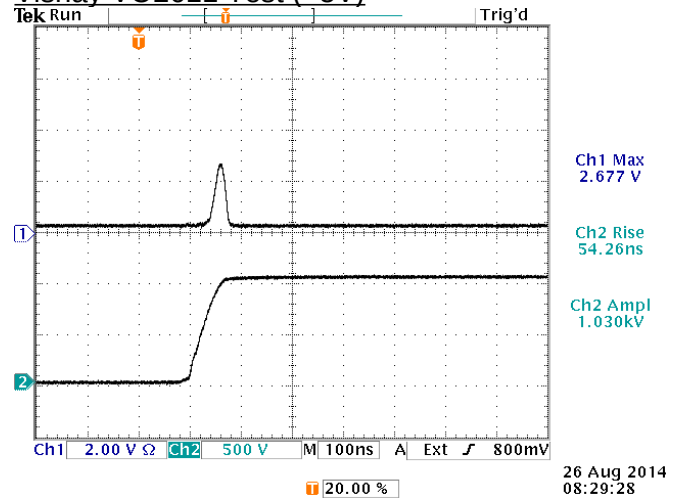
Vishay VO2611 Test (+5V)



+1kV, +5V, 0 mA, 348Ω load ("A" PCB).

No glitches at minimum risetime, so the CMTI exceeds $(1\text{kV} \times (90\% - 10\%)) / 17.97\text{ ns} = 44.5\text{ kV/us}$.

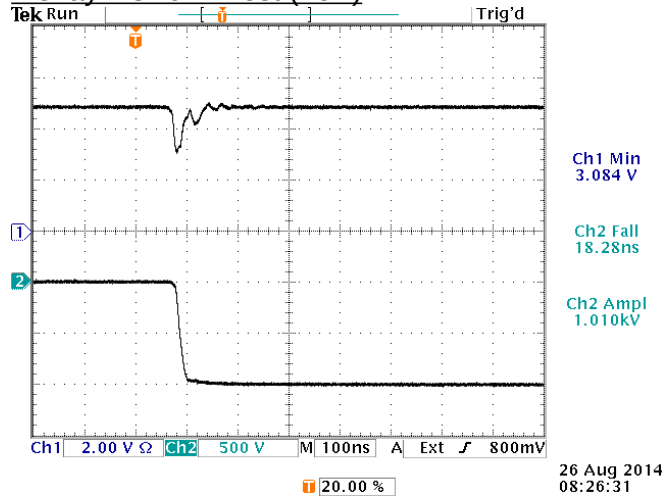
Vishay VO2611 Test (+5V)



+1kV, +5V, 7.5 mA, 348Ω load ("D7" PCB).

A glitch starts to occur at $1\text{ kV} \times (90\% - 10\%) / 54.26\text{ ns} = 14.7\text{ kV/us}$, which is less than the 15 kV/us specification.

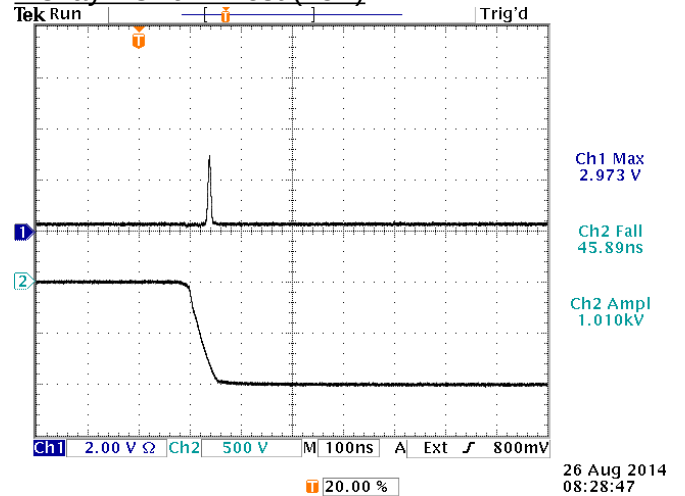
Vishay VO2611 Test (+5V)



-1kV, +5V, 0 mA, 348Ω load ("A" PCB).

The glitch at minimum risetime does not dip below 50%, so the CMTI exceeds $(1\text{kV} \times (90\% - 10\%)) / 18.28\text{ ns} = 43.7\text{ kV/us}$.

Vishay VO2611 Test (+5V)



-1kV, +5V, 7.5 mA, 348Ω load ("D7" PCB).

A glitch starts to occur at $1\text{ kV} \times (90\% - 10\%) / 45.89\text{ ns} = 17.4\text{ kV/us}$.