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Type 2201-1 Impedance Matching Transformer for DO-160 Section 17 for use with Solar Type 7054-1 Transient Pulse Generator



SPECIFICATIONS

REQUIREMENTS

Tr: $\leq 2 \mu\text{S}$ (0 to crest)

Duration: $> 10 \mu\text{S}$ (0 to crossover)

Generator impedance: 50 Ω load generator with 50 Ω . Voltage must drop to half the open circuit voltage $\pm 10\%$ (40.9 Ω to 61.1 Ω)

Peak voltage: Up to 600 V peak

Due to core saturation the EUT current must not exceed 12 A for 50 Hz, 60 Hz and 6 A for 400 Hz.

FIGURES

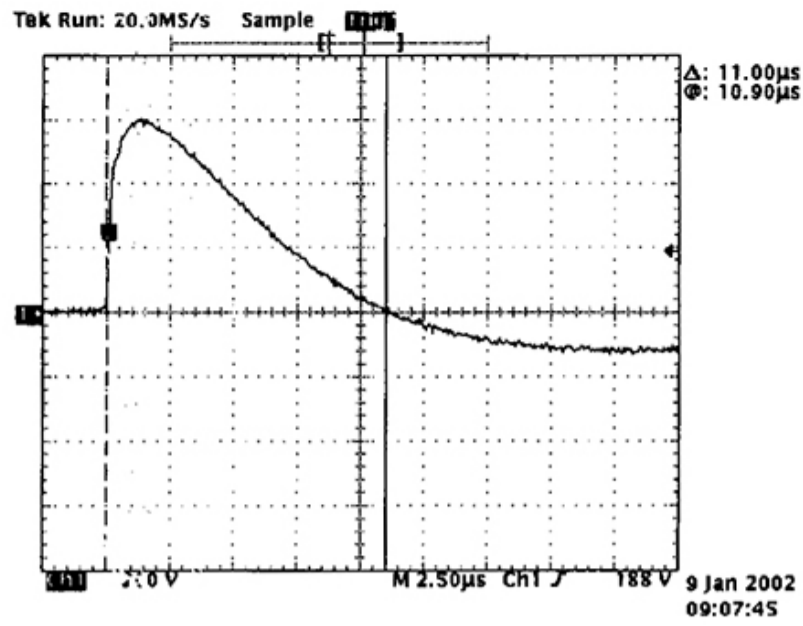


FIG. 1 – OPEN CIRCUIT VOLTAGE (600 V) AS DESCRIBED BY DO-160 SECTION 17 FIGURE 17-1. THE GENERATOR WAS SET AT 450 V ON AMPLITUDE KNOB.

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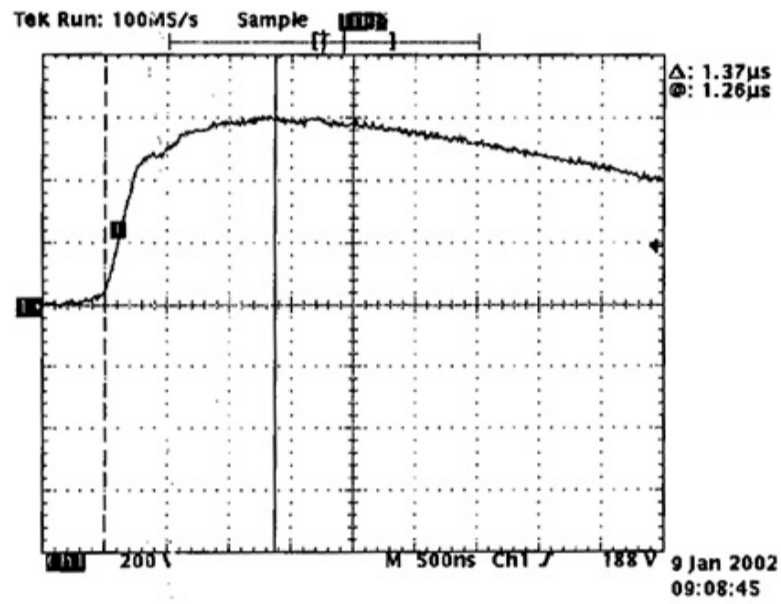


FIG. 2 – SAME AS OPEN CIRCUIT VOLTAGE SHOWN ABOVE WITH HORIZONTAL SCALE EXPANDED TO DISPLAY THE RISE TIME

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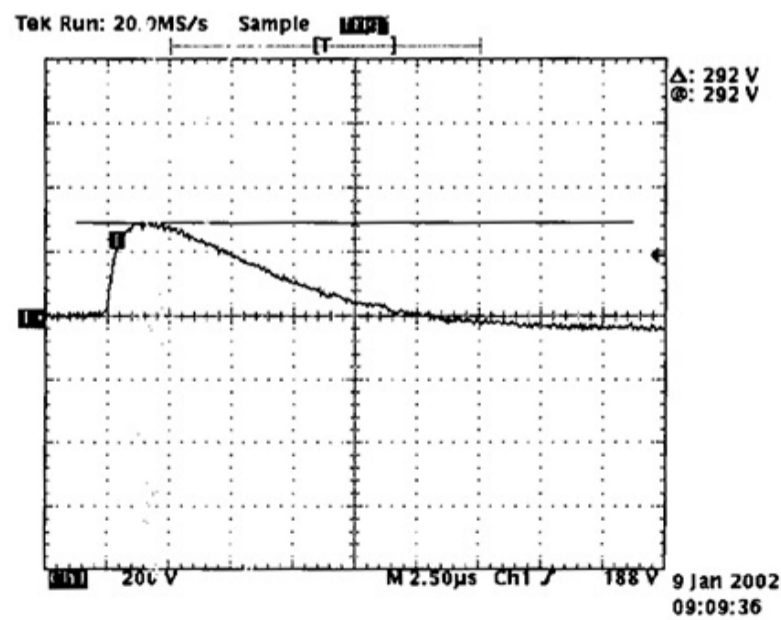


FIG. 3 – MATCHED CONDITION: PLACED A 50 Ω TERMINATION (SOLAR TYPE 9841-1) ACROSS THE SECONDARY OF THE PULSE TRANSFORMER

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