



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



### DESCRIPTION



### SPECIFICATIONS



#### REQUIREMENTS

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

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

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

**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



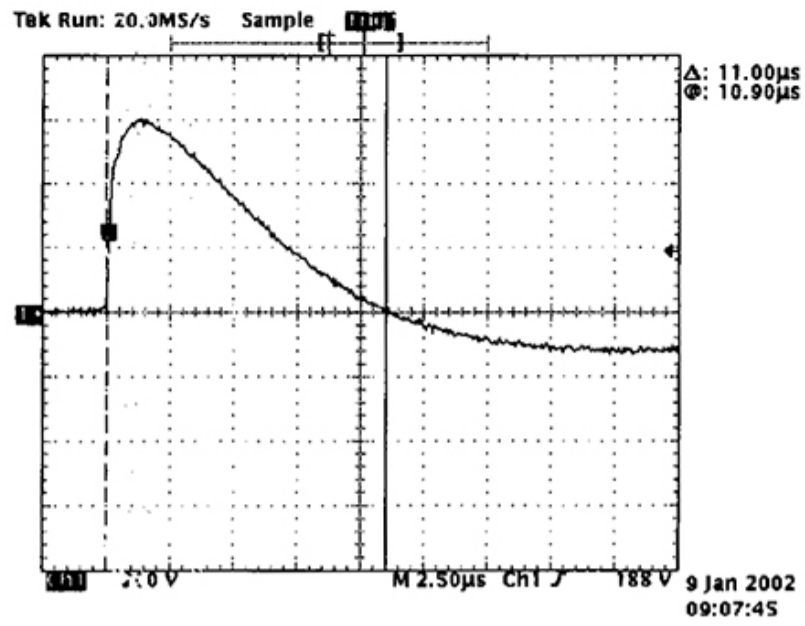


FIG. 1 – OPEN CIRCUIT VOLTAGE (600 V) AS DESCRIBED BY DO-160 SECTION 17 FIGURE 17-1. THE GENERATOR WAS SET AT 450 V ON AMPLITUDE KNOB.

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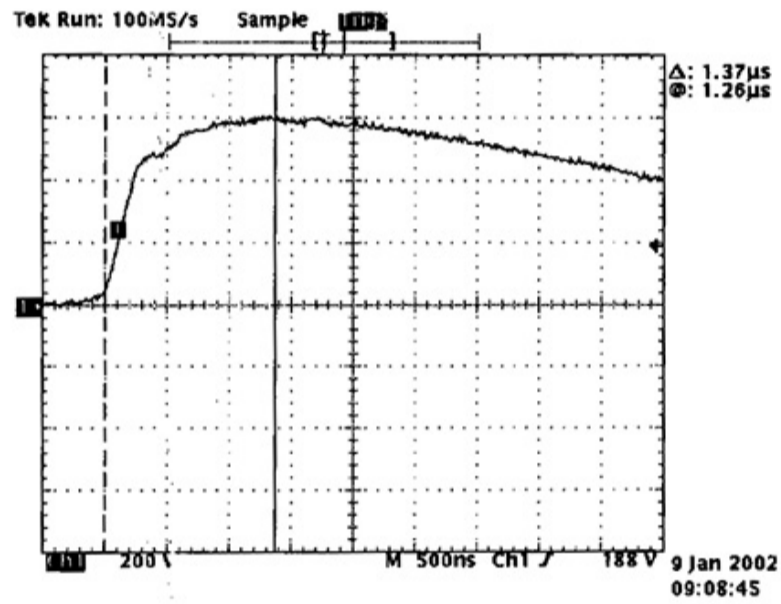


FIG. 2 – SAME AS OPEN CIRCUIT VOLTAGE SHOWN ABOVE WITH HORIZONTAL SCALE EXPANDED TO DISPLAY THE RISE TIME

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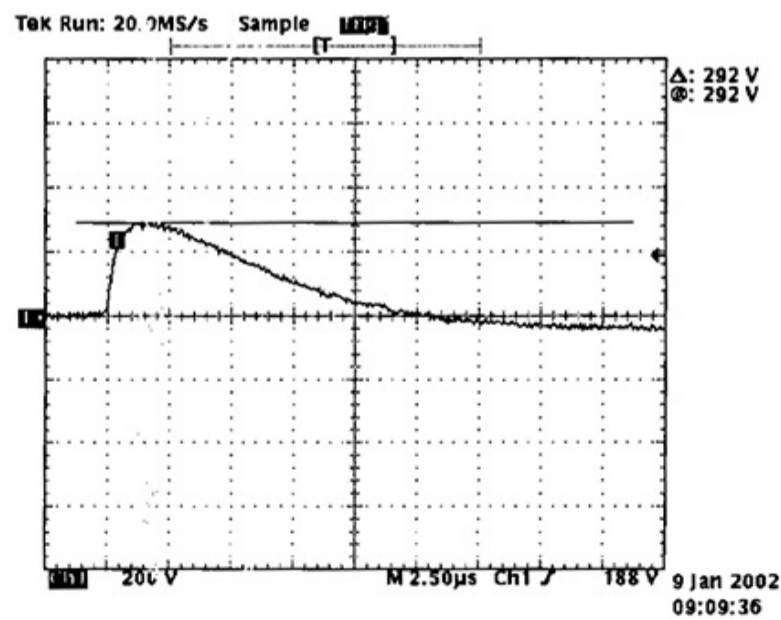


FIG. 3 – MATCHED CONDITION: PLACED A 50 Ω TERMINATION (SOLAR TYPE 9841-1) ACROSS THE SECONDARY OF THE PULSE TRANSFORMER

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