

PULSE TRANSFORMER REQUIREMENTS

1. Operating pulse output voltage _____ kV
2. Load resistance at operating voltage _____ Ω
3. Load capacitance (actual measured value in surroundings and dielectric in which load is to be used) _____ pF
4. Flat-top length _____ μ S at _____ % voltage amplitude
5. Rise-time _____ μ S from 10% to 90% voltage amplitude, assuming a voltage step-function resistive source
6. Overshoot _____ % (same assumptions as item 5)
7. Operating repetition rate _____ pps at _____ μ S and _____ kV
8. Primary to secondary voltage ratio _____ : _____
9. Matched source and load impedance, or
Primary source impedance _____ Ω
10. Polarity of primary and secondary voltages:
 same opposite interchangeable
11. Droop of flat top _____ %
12. Secondary low end insulation to core and base-plate (volts):
ac _____ dc _____ pulse _____ none
13. Primary low end insulation to core and base-plate (volts):
ac _____ dc _____ pulse _____ none
14. Type of secondary winding: Monofilar Bifilar
Current through bifilar windings _____ A
Voltage between bifilar windings _____ V
15. Accessories: Filament transformer (if bifilar)
 Current monitor
 Voltage divider
16. Other specifications: _____
