PAYTON 800W SMPS Transformer

Functional specs

1. Generic Type	: T78AC-44-4C
2. Input voltage of transformer	: 348 ÷ 408 Vdc.
3. Operating duty cycle, **max.**	: 0.87
4. Volt-second product, **max.**	: 2984 (2x1492) V-µsec.
5. Pri. to half sec. ratio (Sec. current, **max.** – 45.6**Arms**.)	**: 22 : 1**
6. Primary current, **max**.	: 2.7**Arms**.(2.9A peak)
7. Dielectric strength	
(Pri. to Sec.)	: 4000Vrms.
(Pri. to Core.)	: 2500Vrms.
(Sec. to Core)	: 500Vdc.
8. Estimated power losses	: 4W @ 400W nominal operation 9.5W @ 800W nominal operation. 18.5W @ 1200W nominal operation.

PAYTON 21uH & 2.7Arms Inductor

Functional specs

1. Generic Type	: I78-21uH/2.7Arms.
2. Inductor application	: Leakage inductor
3. Inductance L @ 0 ÷ 2.9 A	: 21µH±20%
4. Max. Inductor current	: 2.7Arms (2.9Apeak)
5. Dielectric strength (L to core)	: 2500Vrms;
6. Estimated power losses	: 0.5W @ 400W nominal operation 1.5W @ 800W nominal operation. 4.5W @ 1200W nominal operation.

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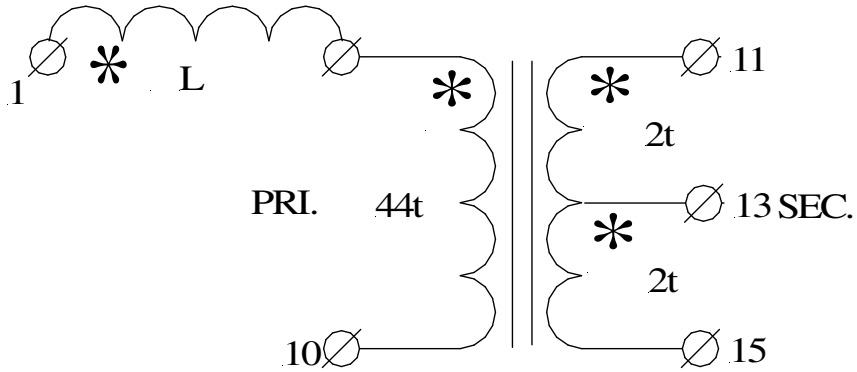
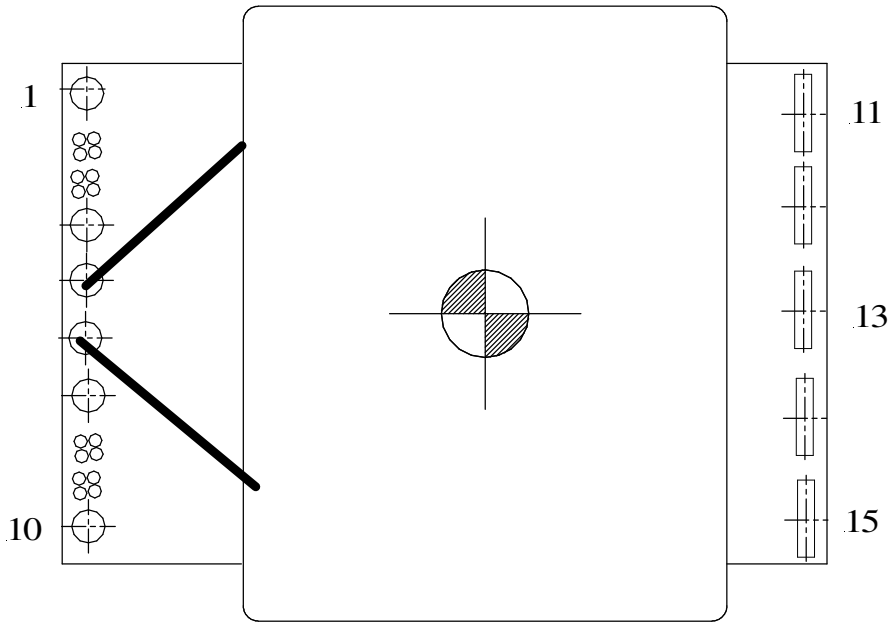
Electrical diagram.



Terminals layout sketch (preliminary; top view; not to scale)



Note Terminations made of through hole pins.

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