



PAYTON 252 W SMPS TRANSFORMER.

Functional specs.

Date : 20/11/12

1. Generic Type : T55DC-8-4C.
2. Output power : 252 W (12 Vdc/21 Adc).
3. Operating frequency of trafo : 175 kHz.
4. Output ripple frequency : 350 kHz.
5. Topology : Full bridge, ZVT, resonant.
6. Input voltage of power stage : 52 - 57 Vdc link.
7. Input voltage of transformer : 50 - 55 Vpeak.
8. Duty cycle, max. : 2x0.484.
(for 0.1V diode drop voltage)
9. Volt-Sec product : 2x138 V-uSec, max.
10. Primary current : 6.37 Arms (9 Apeak).
(per customer specs)
11. Pri. to half Sec. turns ratio : 4 : 1.
(Sec. current - 16.5 Arms)
12. Dielectric strength : 500 Vdc.
(Pri. to Sec.) : 500 Vdc.
(Pri. + Sec. to core)
13. Ambient temperature range : -55°C ÷ 85°C.
14. Estimated total PWR losses : 4 W.
(With 107°C heat sink)
15. Estimated hot spot temperature : 145°C.
(With 107°C heat sink)
16. Mechanical dimensions : Length - 30mm.
(for reference only) Width - 26mm.
Height - 14mm.

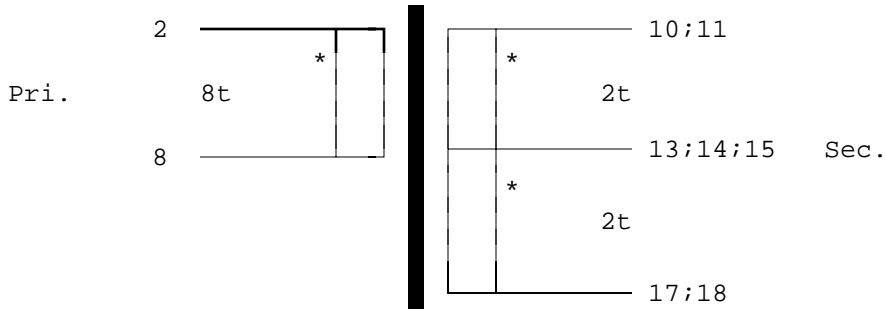


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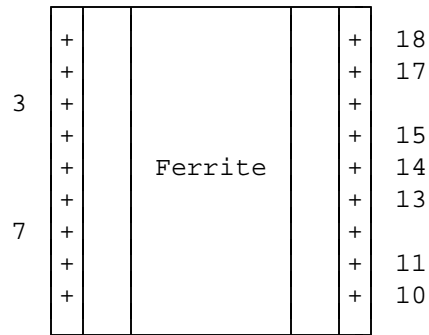
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Electrical diagram.



Terminations location sketch (top view; not in scale).



Note: Terminations made of "through holes" pins,
min.length beneath ferrite is 3.8mm.

Terminations location sketch (side view; not in scale).

