



PAYTON 396 W SMPS TRANSFORMER

Functional specs

Date : 23/04/08

1. Generic Type : T055DC-5-4.
2. Total output power of power supply : 396 W [12Vdc/33Adc]
3. Topology : **Full Bridge, ZVS, with Current Doubler rectifier.**
4. Input voltage range : 36 ÷ 72 Vdc.
5. Operating frequency : 250 kHz.
6. Volt-second product, **max.** : 123 V-µsec.
7. Operating duty cycle, **max.** : 0.816.
8. Primary current, max : 12.7 Arms (14 A peak).
9. Pri. to main Sec. ratio : 5 : 4.
(Sec. current, **max.** – 16.5 Arms)
10. Dielectric strength
Pri. to Sec. : 1500 Vdc .
Pri. , Sec. to Core : 700 Vdc .
11. Ambient temperature range : -40 ÷ 75°C.
12. Estimated power losses : 4.75 W.
(**with 80°C external heat sink**)
13. Estimated hot spot temperature : 118°C .
(**with 80°C external heat sink**)
14. Mechanical dimensions : Length - 29.5 mm.
(for reference only) : Width - 25.5 mm.
: Height - 14.5 mm.



PAYTON GROUP ENGINEERING

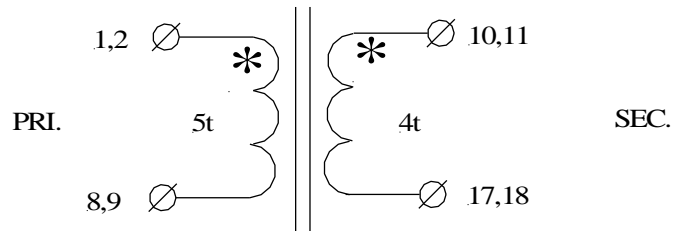
The World Leader in Commercial & Military Planar Magnetics Design & Manufacturing

PAYTON 396 W SMPS TRANSFORMER

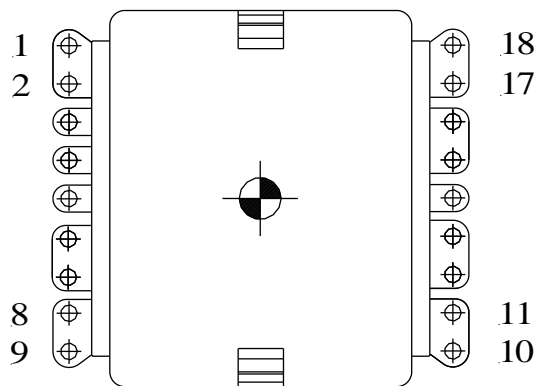
Functional specs

Date : 23/04/08

Electrical diagram.



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



Note: Primary and secondary terminations made of SMT pins .