PAYTON 500W SMPS MODULE

Functional specs

Date : 31/12/17

1. Generic Type : T71AC-16-4C + I71-3uH/3.1Arms.


3. Operating frequency of transformer : 220 ÷ 1000 kHz.

4. Input voltage of power stage : 340 ÷ 400 Vdc.


6. Ambient temperature range : -40 ÷ +55°C.

7. Estimated total power losses : 7.5W @ 480kHz

8. Operational temperature range (Including Module self-temperature rise) : -40 ÷ +155°C.

9. Mechanical dimensions (For reference only) :
   : Length – 35mm max.
   : Width – 26 mm max.
   : Height – 25 mm max.

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### Functional specs

1. **Generic Type**
   - : T71AC-16-4C

2. **Input voltage of transformer**
   - : 200 Vdc.

3. **Operating duty cycle, Fixed**
   - : 1 (2x0.5)

4. **Volt-second product, max.**
   - : 910 (2x455) V-µsec.

5. **Pri. to half sec. ratio**
   - (Sec. current, max. – 18Arms.)
   - : **16 : 2**

6. **Primary current, max.**
   - : 3.3Arms (5A peak)

7. **Primary magnetizing inductance**
   - : 50 ± 15% (Measured on primary side with secondary Open)

8. **Dielectric strength**
   - (Pri. To Sec.)
   - : 3000Vrms.
   - (Pri. to Core.)
   - : 2500Vrms.
   - (Sec. to Core)
   - : 500Vdc.

9. **Estimated power losses**
   - : 7.9W @ 220kHz
   - : 7.2W @ 480kHz
   - : 9W @ 1000kHz

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### Functional specs

1. **Generic Type**
   - : I71-2uH/3.3Arms.

2. **Inductor application**
   - : Resonance inductor

3. **Inductance L @ 0 ÷ 8 A**
   - (Measured on primary side of the module, with whole secondary side, terminals 5-7, shorted.)
   - : 2µH±20%

4. **Max. Inductor current**
   - : 3.3Arms (5Apeak)

5. **Dielectric strength**
   - (L to core)
   - : 2500Vrms;

6. **Estimated power losses**
   - : 0.1W @ 220kHz
   - : 0.3W @ 480kHz
   - : 1W @ 1000kHz

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Electrical diagram.

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

Note: Terminations made of through hole pins.