

Forward Transformer

EPC3008

- 200 KHz Switching Frequency •
- Used in Forward Converter Topology •
- Isolation : 500Vrms •

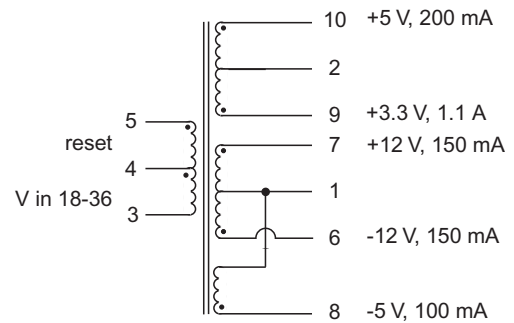
Primary Specifications :

| Inductance (μ H Min.) | DCR (Ω Max.) | | | | |
|-------------------------------|-------------------------|--------------|-------------|------------------|-------------|
| @ 10 KHz, 0.1 Vrms | --- | --- | --- | --- | --- |
| 408 | .226 | .189 | .142 | 1.80 | 0.9 |
| Pins 4-3, 5-4 | Pins 5-4, 4-3 | Pins 10-2 | Pins 9-2 | Pins 1-6, 7-1 | Pins 8-1 |

Magnetic Design @ V in : 18-36 V, V out, I out see below •

| Core Loss (mW) | Turns Ratio | | | | | | Temp. Rise ($^{\circ}$ C Typ.) |
|-------------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------------------------|
| | --- | --- | --- | --- | --- | --- | |
| 87 | 1:0.5 | 1:0.391 | 1:0.283 | 1:0.804 | 1:0.804 | 1:0.391 | 23 |
| | Pins 5-3:5-4 | Pins 5-3:10-2 | Pins 5-3:9-2 | Pins 5-3:1-6 | Pins 5-3:7-1 | Pins 5-3:8-1 | --- |

Schematic



Dimensions

| Dim. | (Inches) | | | (Millimeters) | | |
|------|----------|------|------|---------------|-------|-------|
| | Min. | Max. | Nom. | Min. | Max. | Nom. |
| A | --- | .560 | --- | --- | 12.22 | --- |
| B | --- | .560 | --- | --- | 14.22 | --- |
| C | --- | .520 | --- | --- | 13.21 | --- |
| D | --- | --- | .400 | --- | --- | 10.16 |
| E | --- | --- | .039 | --- | --- | 1.00 |
| F | --- | --- | .100 | --- | --- | 2.54 |
| G | --- | --- | .400 | --- | --- | 10.16 |
| H | --- | --- | .024 | --- | --- | .600 |
| J | .100 | .130 | .115 | 2.54 | 3.30 | 2.92 |
| M | --- | --- | .039 | --- | --- | 1.00 |
| N | --- | --- | .100 | --- | --- | 2.54 |
| Q | --- | --- | .400 | --- | --- | 10.16 |

