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# EP13 Flyback Transformer
## DC Transformer

## Characteristics:

·Easy design-in solution
·Less external components needed
·Small board space
·Low cost
·No optocoupler needed
·Long term reliability voltage control
·No aging
·Same external parts for different output voltages
·Easy design of custom power supply due to standard circuit and change of transformers and two components for feedback loop

## Options:

· Easy design-in, fewer external components, small board space, low cost
· No optocoupler needed, long-term reliability, voltage control without aging
· For isolated power design, sensor interfaces, isolated telecom converters & Power over Ethernet

## Common Applications:

·Isolated power design
·Sensor interfaces
·Isolated telecom converters
·Power over Ethernet

## Physical Propertie

| Order Code | $V_{IN}$ | $V_{Out1}$ (V) | $I_{out1}$ (A) | $V_{Out2}$ (V) | $I_{out2}$ (A) | $V_{Out3}$ (V) | $I_{out3}$ (A) | $V_{Out4}$ (V) | $I_{out4}$ (A) | $V_{aux}$ (V) | L (μH) | n | $I_{SAT}$ (A) | $L_S$ (μH) | $V_T$ (V(AC)) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| INF-EP13-3.8μH | 8 - 24 V (DC) | 15 | 0.15 | 15 | 0.15 | 15 | 0.15 | 15 | 0.15 | – | 3.8 | 1:1:4:4:4:4 | 12 | 0.4 | 1500 |
| INF-EP13-9μH | 10 - 40 V (DC) | 3.3 | 4 | – | – | – | – | – | – | 8 | 9 | 4:1:2.2 | 8 | 0.5 | 1500 |
| INF-EP13-9.07μH | 10 - 40 V (DC) | 5 | 3 | – | – | – | – | – | – | 8 | 9.07 | 3:1:1.75 | 8 | 0.25 | 1500 |
| INF-EP13-9μH | 10 - 40 V (DC) | 15 | 1 | – | – | – | – | – | – | 8 | 9 | 1.5:1:0.5 | 8 | 0.25 | 1500 |
| INF-EP13-100μH | 12 V (DC) | 200 | 0.002 | -200 | 0.002 | – | – | – | – | 4 | 100 | 1:10:10:0.219 | 2 | 4.5 | 1500 |
| INF-EP13-100μH | 12 V (DC) | 200 | 0.002 | -200 | 0.002 | – | – | – | – | – | 100 | 1:10:10 | 2 | 3 | 1500 |
| INF-EP13-100μH | 36 V (DC) | 12 | 1 | – | – | – | – | – | – | 8 | 100 | 3:1:0.667 | 2.4 | 1.5 | 1500 |
| INF-EP13-100μH | 36 V (DC) | 12 | 1 | – | – | – | – | – | – | 8 | 100 | 3:1:0.667 | 2.4 | 1.5 | 2500 |
| INF-EP13-15μH | 36 V (DC) | 3.3 | 4 | – | – | – | – | – | – | 8 | 15 | 3:1:2.5 | 5 | 0.3 | 2500 |
| INF-EP13-50μH | 36 V (DC) | 5 | 4 | – | – | – | – | – | – | 10 | 50 | 5:1:2 | 3.3 | 1.2 | 1500 |
| INF-EP13-50μH | 36 V (DC) | 5 | 4 | – | – | – | – | – | – | 10 | 50 | 4:1:2 | 3.85 | 1.2 | 1500 |
| INF-EP13-50μH | 36 V (DC) | 5 | 4 | – | – | – | – | – | – | 10 | 50 | 4:1:2 | 3.7 | 1.2 | 2500 |
| INF-EP13-50μH | 36 V (DC) | 5 | 4 | – | – | – | – | – | – | 10 | 50 | 5:1:2 | 3.1 | 1.2 | 1500 |
| INF-EP13-50μH | 36 V (DC) | 5 | 4 | – | – | – | – | – | – | 10 | 50 | 4:1:2 | 3.7 | 1.2 | 2500 |
| INF-EP13-37μH | 37 - 57 V (DC) | 12 | 2.1 | – | – | – | – | – | – | 12 | 37 | 2:1:1.1 | 2.8 | 0.75 | 1500 |

## Technical Specifications