

Half-Bridge Transformer

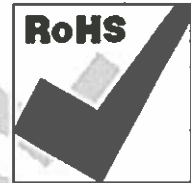
75PR8125

FEATURES

- Designed for Texas Instruments Inc.
- Design to work with C2000 Controllers.
- Topology: LLC Resonant Half-Bridge.
- Operating Temperature: -40°C to 125°C.
- Manufactured with UL Recognized Materials for 130°C (B) Temperature Class.

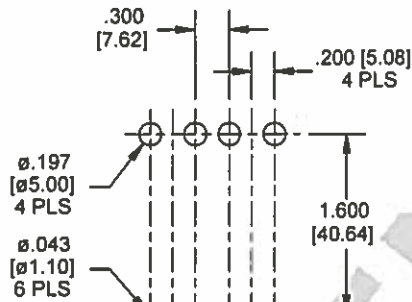
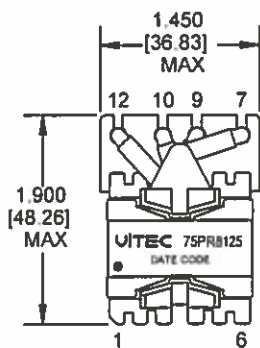
- Materials meet flammability requirements for UL94V-0.
- Reinforced Insulation per IEC 60950.
- Creepage distance (Pris-Sec): 11 mm minimum.
- Clearance distance (Pris-Sec): 11 mm minimum.
- RoHS Compliant Component.

RoHS

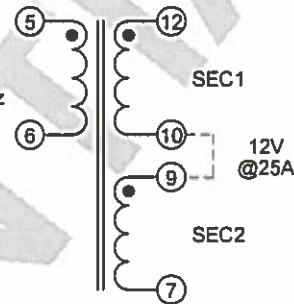


MECHANICAL

PRELIMINARY

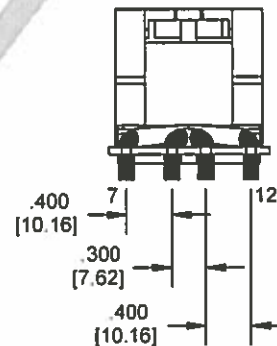
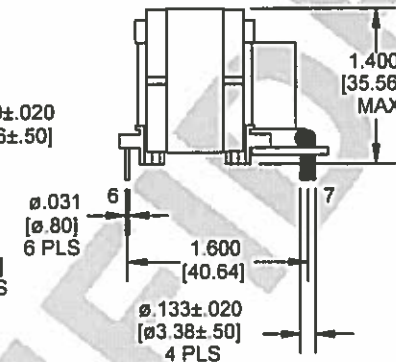
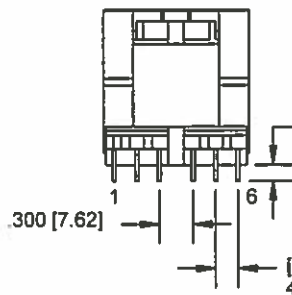


PRI
350-420V
220-300KHz



SUGGESTED PCB LAYOUT

SCHEMATIC



ALL DIMENSIONS GIVEN IN INCHES (MILLIMETERS)
TOLERANCES UNLESS OTHERWISE SPECIFIED.
LINEAR RANGE: TOLERANCE
0<DIM≤.002 [12.70] ±.004 [±.10]
.002 [12.70]<DIM≤1.000 [25.40] ±.008 [±.20]
1.000 [25.40]<DIM≤2.000 [50.80] ±.012 [±.30]
2.000 [50.80]<DIM≤3.000 [76.20] ±.016 [±.40]
ANGULAR: ±1°

ELECTRICAL SPECIFICATIONS @ 25°C

URNS RATIO: AT 100 KHz, 1 VRMS
(5-6) : (12-10) = 17.00 : 1 = 17.00 ±1% (16.83-17.17)
(5-6) : (9-7) = 17.00 : 1 = 17.00 ±1% (16.83-17.17)

DCR:
(5-6) = 0.115 OHMS MAX.
(12-10), (9-7) = 0.0013 OHMS MAX.

OCL: AT 100 KHz, 0.100 VRMS
(5-6) = 149.2 ±3% uH (144.7-153.7 uH)

HIPOT: 50/60 Hz, 2 SECONDS MINIMUM
(5,6) TO (7,9,10,12) : 3750 VRMS
(7,9) TO (10,12) : 500 VRMS
(5,6,7,9,10,12) TO (CORE) : 2000 VRMS

LL: AT 100 KHz, 1 VRMS
(5-6) = 3.20 ±15% uH (2.72-3.68 uH), SHORT (7-9-10-12)

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REF: AF5995, AF6076

FILE NAME: 75PR8125_122116

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