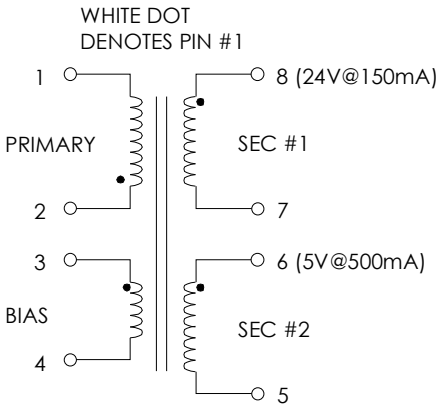
TABLE 1: ELECTRICAL SPECIFICATIONS AT 25 °C

SWITCHING TRANSFORMER DESIGNED FOR USE WITH POWER INTEGRATIONS PWR-TOP243.

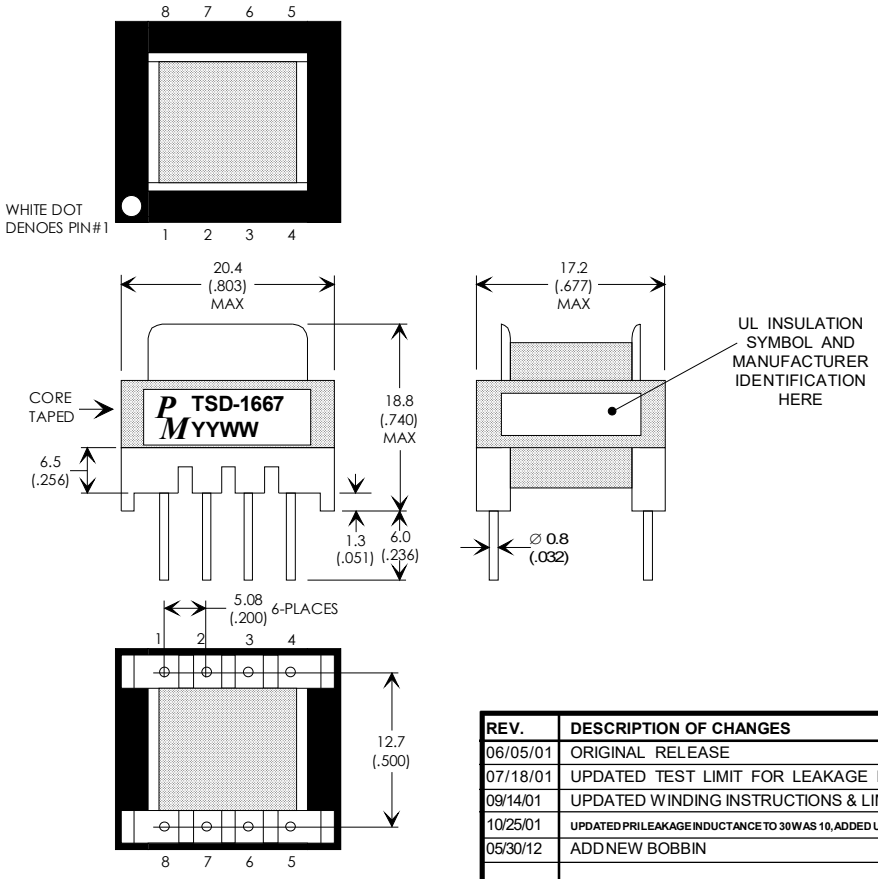
PARAMETER	SPEC LIMITS MIN.	TYP.	MAX.	UNITS
PRIMARY INDUCTANCE (2-1) VOLTAGE = 0.250Vrms FREQUENCY = 100 KHZ	1050	1150	1250	µHY
TURN RATIO'S: SEC#1 (8-7) : PRIMARY (2-1) SEC#2 (6-5) : PRIMARY (2-1) BIAS (3-4) : PRIMARY (2-1)	 -------- -------- --------	 1 : 3.76 1 : 15.8 1 : 5.27	 -------- -------- --------	 ± 3% ± 3% ± 3%
PRI LEAKAGE IND (SEC'S SHORTED) VOLTAGE = 0.250Vrms FREQUENCY = 100 KHZ	--------	--------	30.0	µHY
HIPOT: PRIMARY TO SECONDARIES BIAS TO SECONDARIES	 3000 3000	 -------- --------	 -------- --------	 Vrms Vrms
AC LINE VOLTAGE 47/400 Hz OUTPUT VOLTAGE SEC#1 OUTPUT CURRENT SEC#1 OUTPUT VOLTAGE SEC#2 OUTPUT CURRENT SEC#2 LINE REGULATION (85 TO 135Vac) LOAD REGULATION 25-100% RIPPLE	85 -------- -------- -------- -------- -------- -------- --------	-------- 24.0 0.150 5.0 0.400 1.25 1.50 200.0	135 -------- -------- -------- -------- -------- -------- --------	Vac Vdc Amps Vdc Amps ±% ±% ±mV

FIGURE 1: SCHEMATIC DIAGRAM



NOTE1:
REINFORCED INSULATION SYSTEM, UL1950, IEC950, CSA-950:
A) ALL MATERIALS MEET "UL", "CSA" & "IEC" REQUIREMENTS
B) TRIPLE BASIC INSULATED SECONDARY.
C) VARNISH FINISHED ASSEMBLY.
D) UL CLASS (B) 130 INSULATION SYSTEM PM130-R1, PM130-H1, PM130-H1A (UL FILE #E177139) OR ANY UL AUTHORIZED CLASS (B) INSULATION SYSTEM.

FIGURE 2: PHYSICAL DIMENSIONS mm (INCHES)



REV.	DESCRIPTION OF CHANGES	BY
06/05/01	ORIGINAL RELEASE	PP
07/18/01	UPDATED TEST LIMIT FOR LEAKAGE INDUCTANCE	MP
09/14/01	UPDATED WINDING INSTRUCTIONS & LIMIT FOR LEAKAGE IND.	MP
10/25/01	UPDATED PRI LEAKAGE INDUCTANCE TO 30 WAS 10, ADDED UL CLASS B INSULATION SYS.	LL
05/30/12	ADD NEW BOBBIN	HH

premier magnetics
innovators in magnetics technology

UNLESS OTHERWISE SPECIFIED
DIMENSIONS ARE IN MM
DIMENSIONAL TOLERANCES ARE:
DECIMALS ANGLES
.X ± .25 ±0° 30'
.XX ± .15
DO NOT SCALE DRAWING

TRANSFORMER CONTROL DRAWING

PREMIER P/N: TSD-1667	REVISION: 05/30/12
DRAWN BY: PETER PHAM	REF: PWR-TOP243
SCALE: NONE	SHEET: 1 OF 1