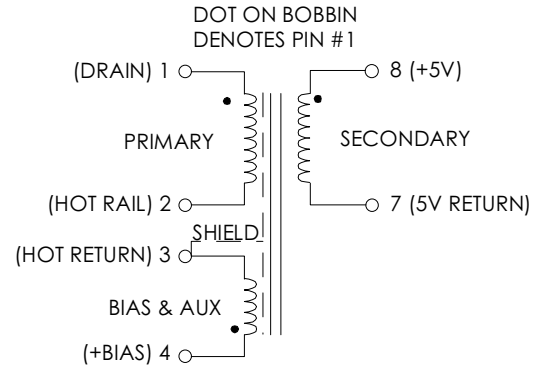


**TABLE 1: ELECTRICAL SPECIFICATIONS AT 25 °C**  
 SWITCHING TRANSFORMER DESIGNED FOR USE WITH POWER INTEGRATIONS  
 PWR-TOP209PFI REFER TO APPLICATION CIRCUIT OF FIGURE 3.

PARAMETER	SPEC LIMITS			UNITS
	MIN.	TYP.	MAX.	
PRIMARY INDUCTANCE (1-2) FREQ. = 100 KHZ @ 0.250Vrms	9.00	10.00	11.00	mHY
TURN RATIO'S: SECONDARY (8-7) : PRIMARY (1-2) BIAS (4-3) : PRIMARY (1-2)	----- -----	1:23.43 1: 8.63	----- -----	± 3% ± 3%
PRI LEAKAGE IND. (8-7 SHORTED) FREQ. = 100 KHZ @ 0.250Vrms	-----	-----	250.0	μHY
HIPOT: PRIMARY & BIAS TO SECONDARY PRIMARY TO BIAS	3000 600	----- -----	----- -----	Vrms Vrms
APP CIRCUIT PARAMETERS: (1) DC HOT RAIL VOLTAGE SEC OUTPUT VOLTAGE @ 10-50mA BIAS OUTPUT & AUXILIARY (2) AUX OUTPUT CURRENT LINE REGULATION (85 TO 265Vac) LOAD REGULATION 10-100% RIPPLE	98 ----- ----- 10 ----- ----- -----	----- 5.0 15.0 ----- 1.00 3.00 100.0	375 ----- ----- 120 ----- ----- -----	Vdc Vdc Vdc mA ±% ±% ±mV

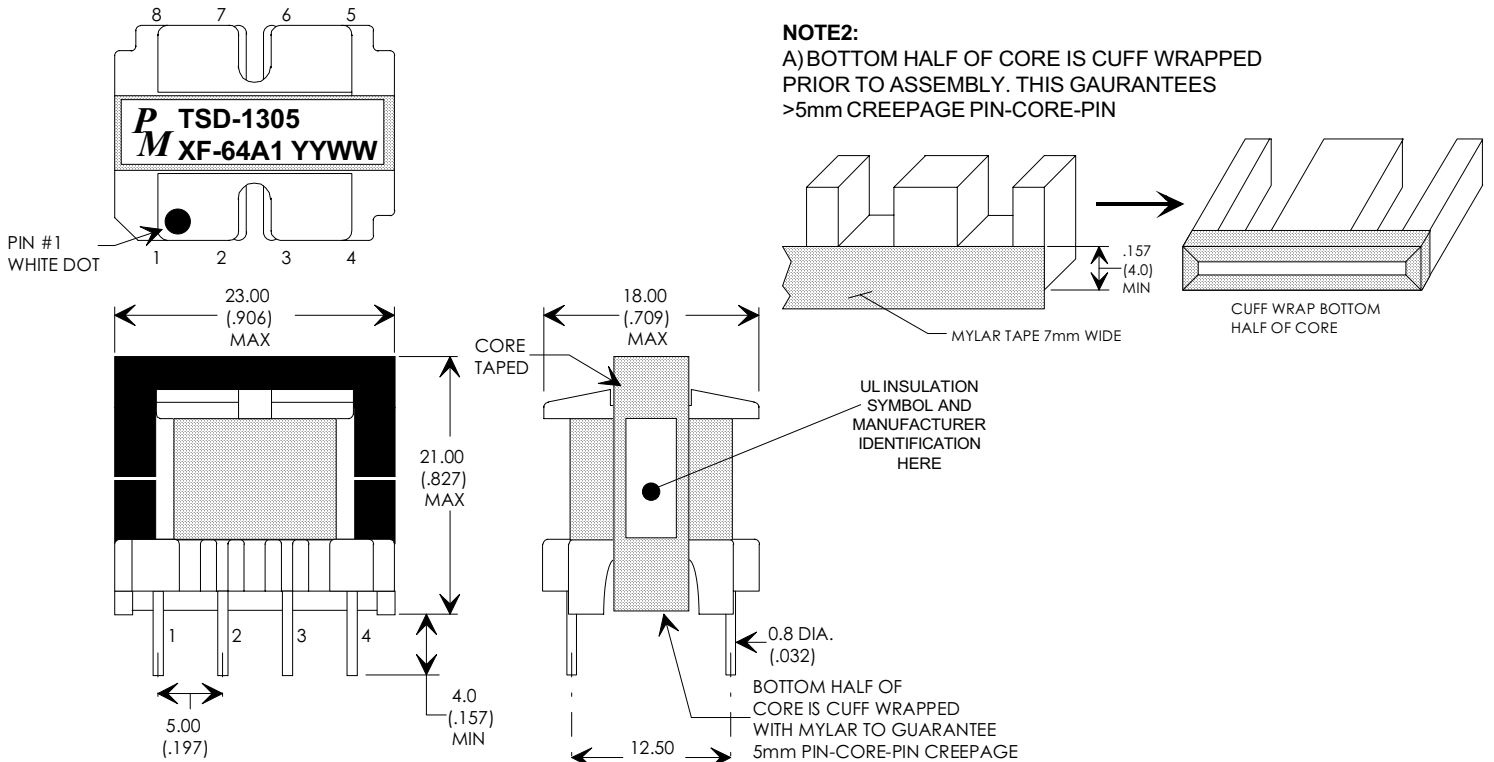
**FIGURE 1: SCHEMATIC DIAGRAM**



**NOTE1:**  
**REINFORCED INSULATION SYSTEM, UL1950, IEC950, CSA-950:**  
 A) ALL MATERIALS MEET "UL", "CSA" & "IEC" REQUIREMENTS  
 B) TRIPLE BASIC INSULATED SECONDARY.  
 C) DESIGNED TO MEET ≥5mm CREEPAGE REQUIREMENTS.  
 D) VARNISH FINISHED ASSEMBLY.  
 E) UL CLASS (B) 130 INSULATION SYSTEM PM130-R1,  
 PM130-H1, PM130-H1A (UL FILE #E177139) OR ANY UL  
 AUTHORIZED CLASS (B) INSULATION SYSTEM.

(1) REFER TO APPLICATION CIRCUIT OF FIGURE 3.  
 (2) THE BIAS OUTPUT IS ALSO USED AS A PRIMARY SIDE AUX. POWER SOURCE

**FIGURE 2: PHYSICAL DIMENSIONS mm (INCHES)**



REV.	DESCRIPTION OF CHANGES	BY
10/28/98	ORIGINAL RELEASE	PP
09/13/99	UPDATE TO UL CLASS (B) 130 INSULATION SYSTEM	MD

EI22/19/6, 8-PIN VERTICAL BOBBIN



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

**FLYBACK TRANSFORMER CONTROL DRAWING**

PREMIER P/N: TSD-1305	REVISION: 09/13/99
DRAWN BY: PETER PHAM	REF: XF-000064-00 A1
SCALE: NONE	SHEET: 1 OF 6

