This Document describes and specifies the electrical and mechanical characteristics of SGE2645-1 high voltage transformer for CCFL inverter power supply. This component should be designed and manufactured in accordance with Engineering Specification LES3811T

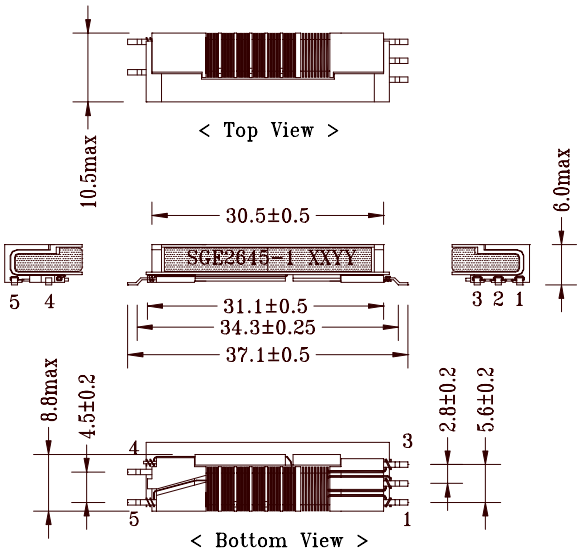
1. Electrical Characteristics

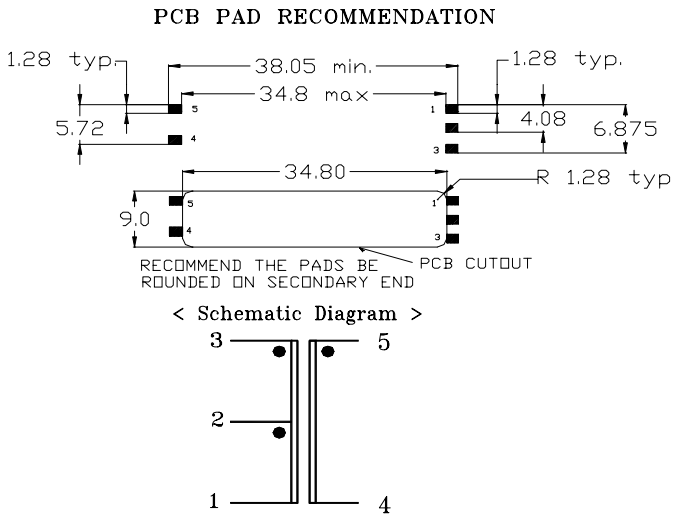
Items	Inductance (at 10Khz, 0.1V)			Items	D.C Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (uH)	31.0	36.0	42.0	R1-2, R2-3(mΩ)	51.0	52.3	53.5
L4-5 (mH)	700	790	945	Rdc4-5(Ω)	273	284	295
L_{LKG2-4} , L_{LKG4-6} (uH)	**Inductance (at 100Khz, 1Vrms)**			R1-2/R2-3	0.96	1	1.04
	4.4	4.5	4.6	Balance of Primary DC resistance will be used as Bifilar winding measure tool			
Should be shorted pin 4-5							
Secondary Self Capacitance				HP4280A 1Mhz C meter, Floating mode			
C4-5 (pF)	2.0	2.5	3.0				
Dielectric Voltage Withstand							
Secondary to Core	60 Hz.,Arc-detect enabled, 5 sec. min., 200uA max. leakage current			2500Vrms min. (1min. 60Hz)			
Primary to Core				1000Vrms min.			
Primary to Secondary				1000Vrms min.			
Operating Test							
V4-5	Primary driven with 60 kHz. sine wave source (pin 1-3), secondary measured with Tektronix P6015 (or equiv.)..			2000Vrms min.			

2. Winding Specifications

	Primary		Secondary
	Pin 1 – 2	Pin 2-3	Pin 4-5
Winding Sequence	2S-1F	3S-2F	5S-4F
Wire Size & Type	#29, Single Insulation, 130°C	#29, Single Insulation, 130°C	#45, Triple insulation, 130°C
Number of Turns	10	10	1500
Winding Method	Bifilar		

3. Physical Specification & Wiring Diagram





Note : This transformer is design for single ended application. Pin 4 must to be connected to low voltage side or ground.