

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

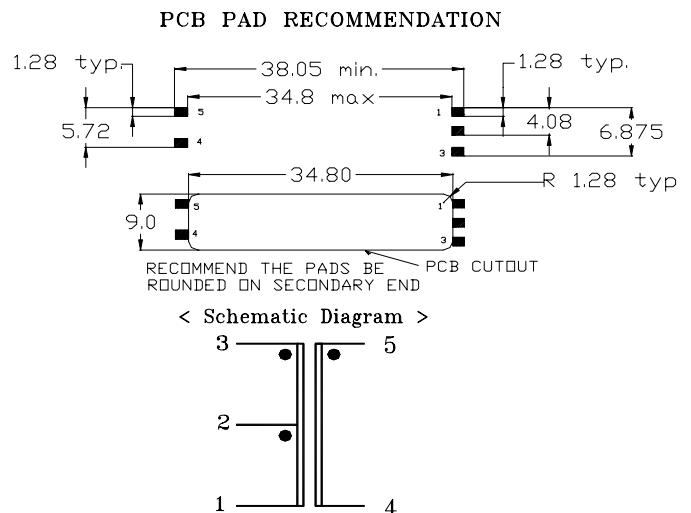
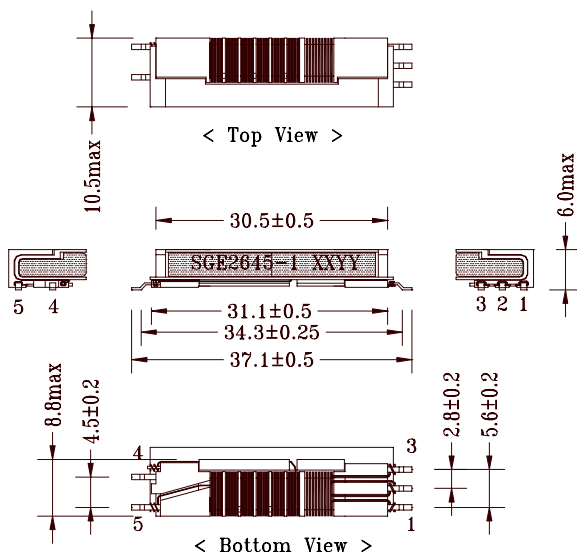
### 1. Electrical Characteristics

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 <sub>LKG2-4</sub> , L <sub>LKG4-6</sub> (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				HP4280A 1Mhz C meter, Floating mode			
Secondary Self Capacitance							
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.