

This Document describes and specifies the electrical and mechanical characteristics of SGE2643-3 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)	124	144	168	R1-2, R2-3(mΩ)	170	190	210
L4-5 (mH)	890	1012	1210	Rdc4-5(Ω)	405	415	430
L <sub>LKG2-4</sub> , L <sub>LKG4-6</sub> (uH)	Inductance ( at 100Khz, 1Vrms)			R1-2/R2-3	0.96	1	1.04
	14.7	15.7	16.7				
Should be shorted pin 4-5				Balance of Primary DC resistance will be used as Bifilar winding measure tool			
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				2000Vrms 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	#35 x2, Single Insulation, 130°C	#35 x2, Single Insulation, 130°C	#46, Triple insulation, 130°C
Number of Turns	20	20	1700
Winding Method	Bifilar on Sector #1		Sector #3 to #7. skip #2

### 3. Physical Specification & Wiring Diagram

