

This Document describes and specifies the electrical and mechanical characteristics of SGE2698-1 inverter transformer for CCFL inverter power supply . This component should be designed and manufactured in accordance with Engineering Specification LES1410T

### 1. Electrical Characteristics

Items	Inductance ( at 10Khz, 0.1V)			Items	D.C Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (uH)	94	106	118	R1-2,R2-3(mΩ)	255	265	275
L6-5 (mH)	836	938	1040	Rdc6-5(Ω)	830	871	912
L <sub>LKG2-4</sub> , L <sub>LKG4-6</sub> (uH)	Inductance ( at 100Khz, 1Vrms)			R1-2/R2-3	0.96	1	1.04
	5.5	6.0	6.5	Balance of Primary DC resistance will be used as Bifilar winding measure tool			
Should be shorted pin 6-5				HP4280A 1Mhz C meter, Floating mode			
<b>Secondary Self Capacitance</b>							
C6-5 (pF)	2.0	3.2	5.0				
<b>Dielectric Voltage Withstand</b>							
Secondary to Core	60 Hz.,Arc-detect enabled, 5 sec. min., 200uA max. leakage current			1200Vrms min. ( 1min. 60Hz)			
Primary to Core				1000Vrms min.			
Primary to Secondary				1200Vrms min.			
<b>Operating Test</b>							
V6-5	Primary driven with 80 kHz. sine wave source (pin 1-3), secondary measured with Tektronix P6015 (or equiv.)..			1200Vrms min.			

### 2. Winding Specifications

	Primary		Secondary
	Pin 1 – 2	Pin 2-3	Pin 6-5
Winding Sequence	1S-2F	2S-3F	6S-5F
Wire Size & Type	0.15φ, Single Insulation, 130°C	0.15φ, Single Insulation, 130°C	#50, Class 2 (JIS3202), 130°C
Number of Turns	17	17	1600
Winding Method	Bifilar		

### 3. Physical Specification & Wiring Diagram

