

This Document describes and specifies the electrical and mechanical characteristics of SGE2681-1 high voltage transformer for CCFL inverter power supply. This component should be designed and manufactured in accordance with Engineering Specification LES2110T

## 1. Electrical Characteristics

Items	Inductance ( at 10Khz, 0.1V)			Items	D.C Resistance		
	Min	Nom	Max	ILEIIIS	Min	Nom	Max
L2-3, L3-4 (uH)	211	249	287	R2-3, R3-4(mΩ)	242	249	255
L6-7 (mH)	1030	1213	1396	$Rdc6-7(\Omega)$	362	371	380
L <sub>LKG2-4</sub> ,L <sub>LKG4-6</sub>	Inductance ( at 100Khz, 1Vrms)			R2-3/R3-4	0.96	1	1.04
(uH)	12.7	14	15.3	Balance of Primary DC resistance will be used			
Should be shorted pin 6-7				as Bifilar winding measure tool			
Secondary Self Capacitance			HP4280A 1Mhz C meter, Floating mode				
C4-5 (pF)	2.0	2.5	3.0	TIF 4200A TWITZ C Meter, I loating mode			
Dielectric Voltage Withstand							
Secondary to Core		60 Hz., Arc-detect enabled, 5		2000Vrms min. ( 1min. 60Hz)			
Primary to Core		sec. min., 200uA max.		1000Vrms min.			
Primary to Secondary		leakage current		1000Vrms min.			
Operating Test							
V6-7		Primary driven with 80 kHz.		1500Vrms min.			
		sine wave source (pin 2-4),					
		secondary measured with					
		Tektronix P6015	(or equiv.)				

2. Winding Specifications

	Prin	Secondary		
	Pin 2 – 3	Pin 3-4	Pin 6-7	
Winding Sequence	2S-3F	3S-4F	6S-7F	
Wire Size & Type	#33, Single Insulation 130°C	#33, Single Insulation 130°C	#46, Triple insulation 130°C	
Number of Turns	22	22	1600	
Winding Method	Bif			

## 3. Physical Specification & Wiring Diagram

