

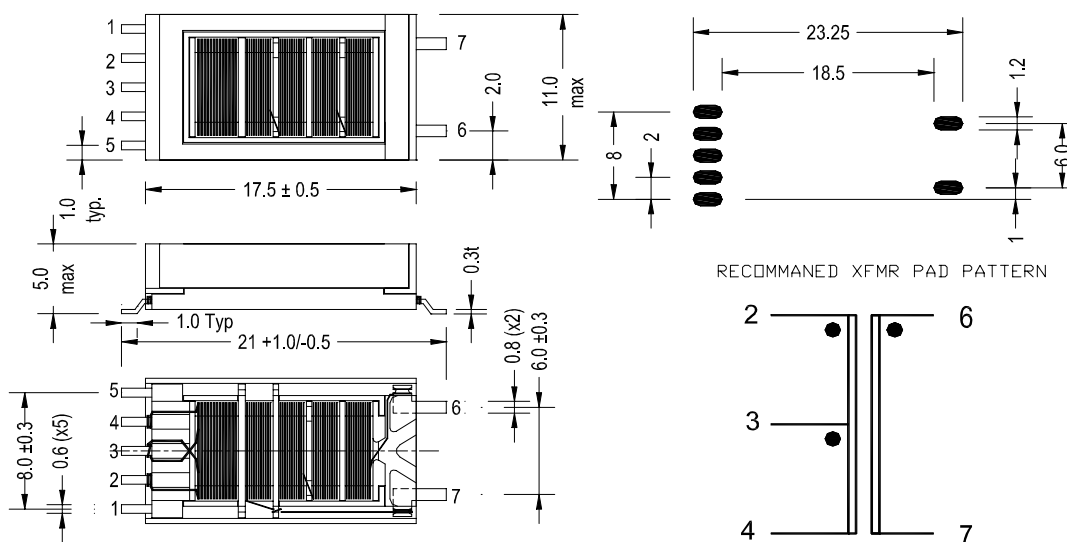
This Document describes and specifies the electrical and mechanical characteristics of SGE2689-1 high voltage transformer for CCFL inverter power supply. This component should be designed and manufactured in accordance with Engineering Specification LES2110T

1. Electrical Characteristics

Items	Inductance (at 10Khz, 0.1V)			Items	D.C Resistance		
	Min	Nom	Max		Min	Nom	Max
L2-3, L3-4 (uH)	157	185	214	R2-3,R3-4(mΩ)	200	215	230
L6-7 (mH)	1030	1213	1396	Rdc6-7(Ω)	362	371	380
L _{LKG2-4} , L _{LKG4-6} (uH)	Inductance (at 100Khz, 1Vrms)			R2-3/R3-4	0.96	1	1.04
	10	11	12	Balance of Primary DC resistance will be used as Bifilar winding measure tool			
Should be shorted pin 6-7							
Secondary Self Capacitance							
C4-5 (pF)	2.0	2.5	3.0	HP4280A 1Mhz C meter, Floating mode			
Dielectric Voltage Withstand							
Secondary to Core	60 Hz.,Arc-detect enabled, 5 sec. min., 200uA max. leakage current			2000Vrms min. (1min. 60Hz)			
Primary to Core				1000Vrms min.			
Primary to Secondary				1000Vrms min.			
Operating Test							
V6-7	Primary driven with 80 kHz. sine wave source (pin 2-4), secondary measured with Tektronix P6015 (or equiv.)..			1500Vrms min.			

2. Winding Specifications

	Primary		Secondary
	Pin 2 – 3	Pin 3-4	Pin 6-7
Winding Sequence	2S-3F	3S-4F	6S-7F
Wire Size & Type	#33, Single Insulation, 180°C	#33, Single Insulation, 180°C	#46, Triple insulation, 180°C
Number of Turns	19	19	1600
Winding Method	Bifilar		

3. Physical Specification & Wiring Diagram


Note : This Transformer is designed for single ended application. Pin 7 must be connected to low voltage side or ground.