

This Document describes and specifies the electrical and mechanical characteristics of SGE2687-1 high voltage transformer for CCFL inverter power supply. This component should be designed and manufactured in accordance with Engineering Specification LES2110T

REVISIONS

REV. B 021004 Revised AL from 43.5uH → 40uH, 1030mH → 1024mH

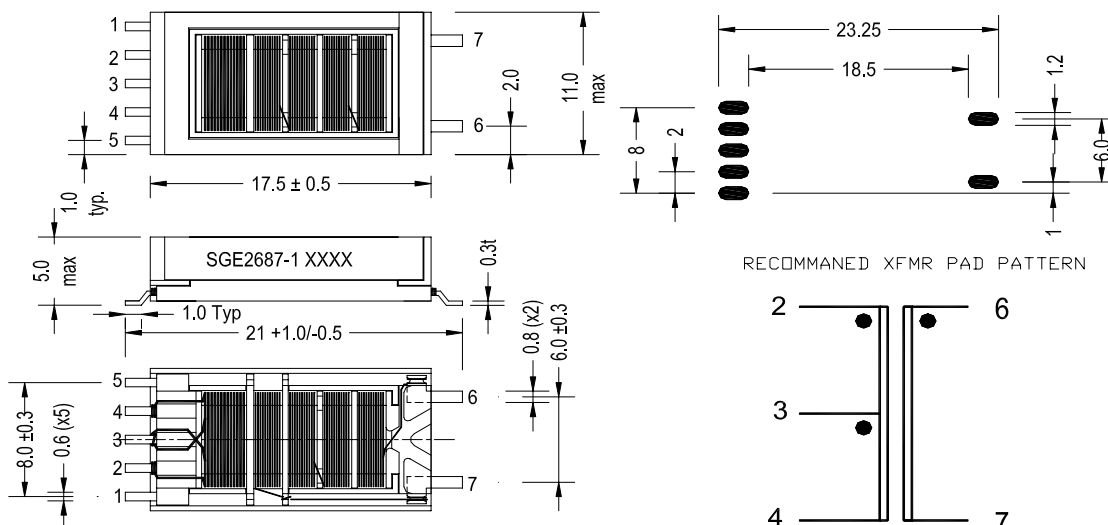
1. Electrical Characteristics

Items	Inductance (at 10Khz, 0.1V)			Items	D.C Resistance		
	Min	Nom	Max		Min	Nom	Max
L2-3, L3-4 (uH)	40	51.5	59.5	R2-3,R3-4(mΩ)	126	135	143
L6-7 (mH)	1024	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
	2.5	3.1	3.7	Balance of Primary DC resistance will be used as Bifilar winding measure tool			
Should be shorted pin 6-7				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		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 130°C	#33, Single Insulation 130°C	#46, Triple insulation 130°C
Number of Turns	10	10	1600
Winding Method	Bifilar		

3. Physical Specification & Wiring Diagram



Linfinity Microelectronics Inc.
NAME: LMT2110S
UNIT: mm TOL: ±0.05 OTHERWISE SPECIFIED

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