

7W LMT3210 62.5:1 Transformer
DESCRIPTION

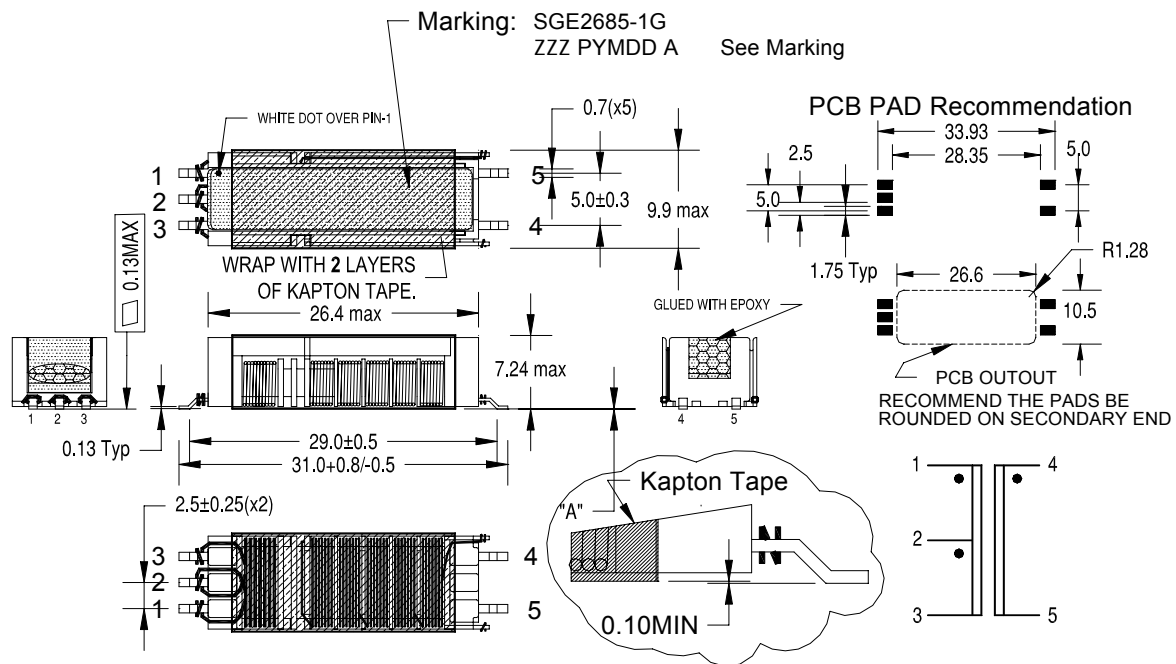
This document describes and specifies the electrical and mechanical characteristics of the SGE2685-1G high voltage transformer for CCFL inverter power supplies. SGE2685-1G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-1.

ELECTRICAL CHARACTERISTICS

Items	Inductance (@ 10KHz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	112	130	152	R _{DC} 1-2, R _{DC} 2-3(mΩ)	225	239	253
L4-5 (mH)	1600	1825	2050	R _{DC} 4-5 (Ω)	563	580	620
L _{LKG1-2, L_{LKG2-3}} (μH)	Inductance (@ 100KHz, 1V), with Short pin4-5			R1-2/R2-3	0.96	1	1.04
	15	16	17	Quality Factor Q _{1-2, Q₂₋₃}	15	18	-
L _{LKG4-5} (mH)	NA	NA	NA	Quality Factor Q ₄₋₅	20	24	-
Rating				Dielectric Voltage Withstand			
Note: Max output power varies depend on operating condition.				60Hz, Arc-detect enabled, 5 sec. min. 200μA max. leakage current			
Max Open Output Voltage	2000V _{RMS} , 3sec.			Secondary to Core	2500V _{RMS} min. (1min)		
Max Output Voltage	1600V _{RMS}			Primary to Core	1000V _{RMS} min.		
Max Output Power	7W			Primary to Secondary	2500V _{RMS} min.		

WINDING SPECIFICATIONS

	Primary		Secondary
	Pin 1-2	Pin 2-3	Pin 4 - 5
Winding Sequence	1S - 2F	2S-3F	4S - 5F
Wire Size & Type	AWG#33, Single Insulation, 180°C	AWG#33, Single Insulation, 180°C	AWG#46, Triple Insulation, 180°C
Number of Turns	16	16	2000
Winding Method	Bifilar		

PHYSICAL SPECIFICATIONS & WIRING DIAGRAM

PART MARKING

SGE□□□□-□□ - SGE2685-1G: MSC PN
ZZZ PYMDD A ZZZ: TMP(Maker code), P: Plant Code, Y: Year, M: Month, D: Date, A: Spec Rev.#

PACKAGING SPEC AND ORDER INFORMATION

Packaging Order Information - SGE2685-1GTR, TR - (Tape and Reel) . Blank - Tray
TAPE & REEL : Refer to SGE2604-1



Specification Number
SGE2685-1G
Revision. A (101805)

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NOTES

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