

**7W LMT3210 62.5:1 Transformer**
**DESCRIPTION**

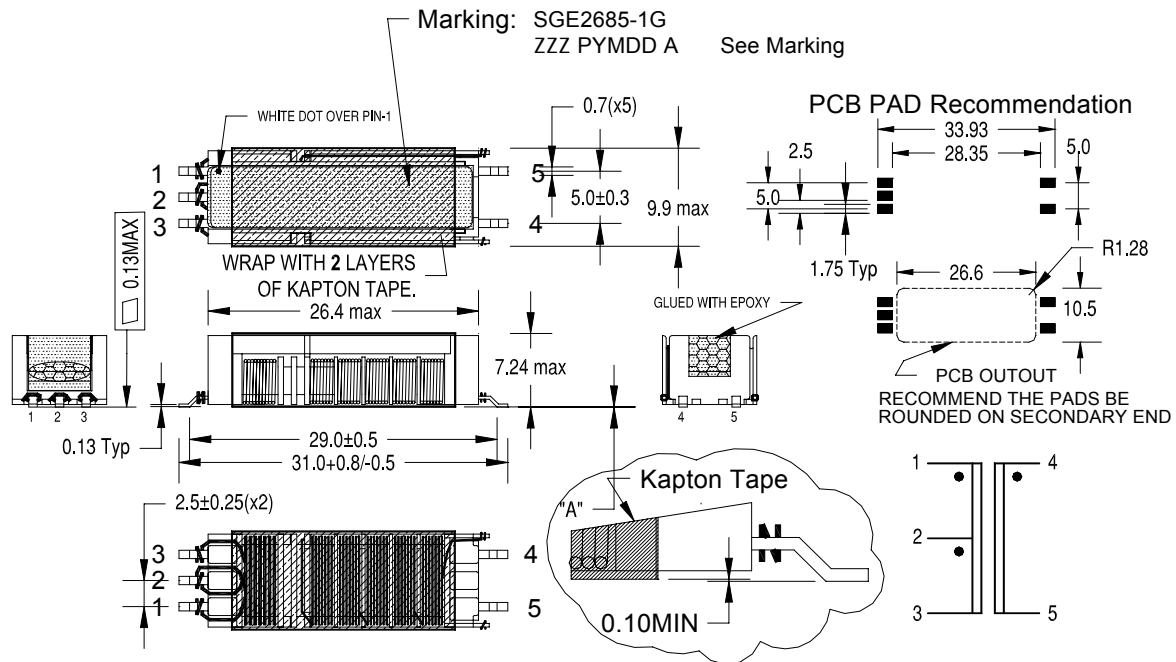
This document describes and specifies the electrical and mechanical characteristics of the SGE2685-1G high voltage transformer for CCFL inverter power supplies. SGE2685-1G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-1.

**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 <sub>DC</sub> 1-2, R <sub>DC</sub> 2-3(mΩ)	225	239	253
L4-5 (mH)	1600	1825	2050	R <sub>DC</sub> 4-5 (Ω)	563	580	620
L <sub>LKG1-2, L<sub>LKG2-3</sub></sub> (μH)	Inductance (@ 100KHz, 1V), with Short pin4-5			R1-2/R2-3	0.96	1	1.04
	15	16	17	Quality Factor Q <sub>1-2, Q<sub>2-3</sub></sub>	15	18	-
L <sub>LKG4-5</sub> (mH)	NA	NA	NA	Quality Factor Q <sub>4-5</sub>	20	24	-
<b>Rating</b>				<b>Dielectric Voltage Withstand</b>			
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 <sub>RMS</sub> , 3sec.			Secondary to Core	2500V <sub>RMS</sub> min. ( 1min)		
Max Output Voltage	1600V <sub>RMS</sub>			Primary to Core	1000V <sub>RMS</sub> min.		
Max Output Power	7W			Primary to Secondary	2500V <sub>RMS</sub> 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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