

2.4W LMT2608 80.0:1 Transformer

FOR REFERENCE USE ONLY

DESCRIPTION

This document describes and specifies the electrical and mechanical characteristics of the SGE2668-1G high voltage transformer for CCFL inverter power supplies. SGE2668-1G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-4.

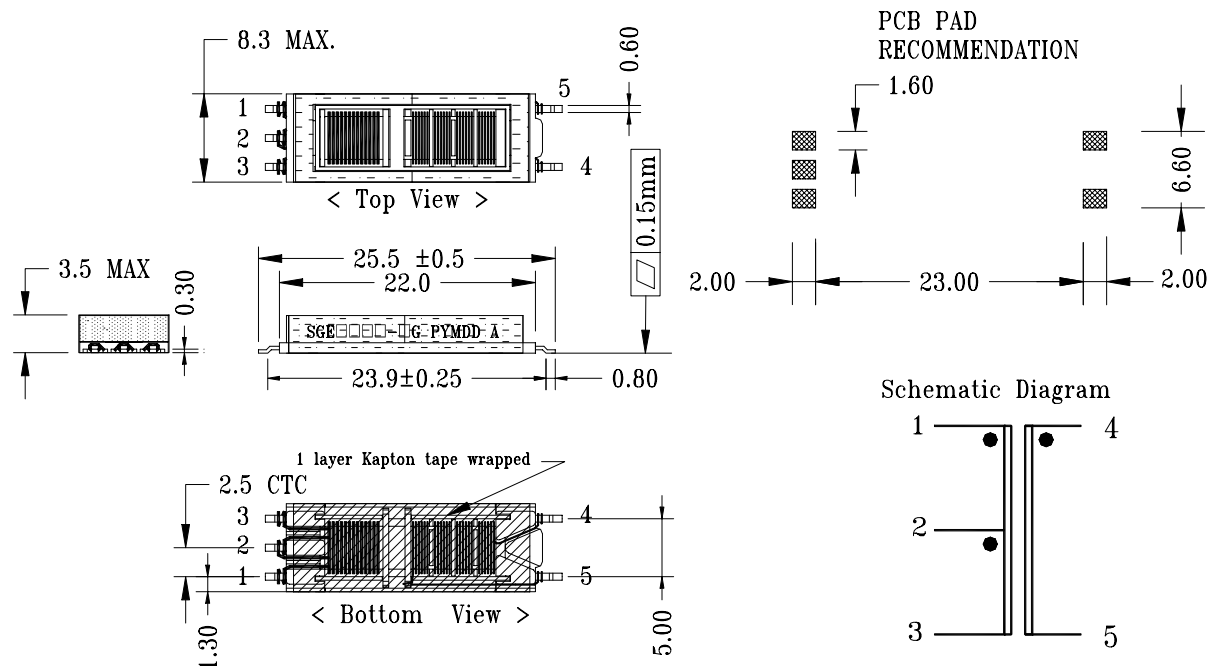
ELECTRICAL CHARACTERISTICS

Items	Inductance (@ 10KHz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	22	29	37	R _{DC} 1-2, R _{DC} 2-3(mΩ)	100	118	128
L4-5 (mH)	300	433	547	R _{DC} 4-5 (Ω)	470	493	560
L _{LKG1-2, L_{LKG2-3}} (μH)	Inductance (@ 100KHz, 1V), with Short pin4-5			R1-2/R2-3	0.96	1	1.04
	6.2	6.7	7.4	Quality Factor Q ₁₋₃	30	50	
L _{LKG4-5} (mH)	NA	NA	NA	Quality Factor Q ₄₋₅	NA	NA	NA
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	1500V _{RMS} , 3sec.			Secondary to Core	1500V _{RMS} min. (1min)		
Max Output Voltage	1000V _{RMS}			Primary to Core	750V _{RMS} min.		
Max Output Power	2.4W			Primary to Secondary	1000V _{RMS} min.		

WINDING SPECIFICATIONS

	Primary		Secondary
	Pin 1 – 2	Pin 2 – 3	Pin 4 – 5
Winding Sequence	1S – 2F	2S – 3F	5S – 4F
Wire Size & Type	0.18φ, Single Insulation, 180°C	0.18φ, Single Insulation, 180°C	0.03φ, Triple Insulation, 180°C
Number of Turns	13	13	1600
Winding Method	Bifilar		

PHYSICAL SPECIFICATIONS & WIRING DIAGRAM



Note : This transformer is design for single ended application. Pin 5 must to be connected to low voltage side or ground.

PART MARKING

SGE□□□□-□G XYZD A – SGE2668-1G: MSC PN,
PYMDD A: P: Plant Code, Y=Year, M:Month, DD:date A: Rev.#

PACKAGING SPEC AND ORDER INFORMATION

Packaging Order Information – SGE2668-1GTR (Tape and Reel)
TAPE & REEL : Refer to SGE2604-4 specification



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Specification Number
SGE2668-1G
Revision. A (051106)

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NOTES

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