

**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.

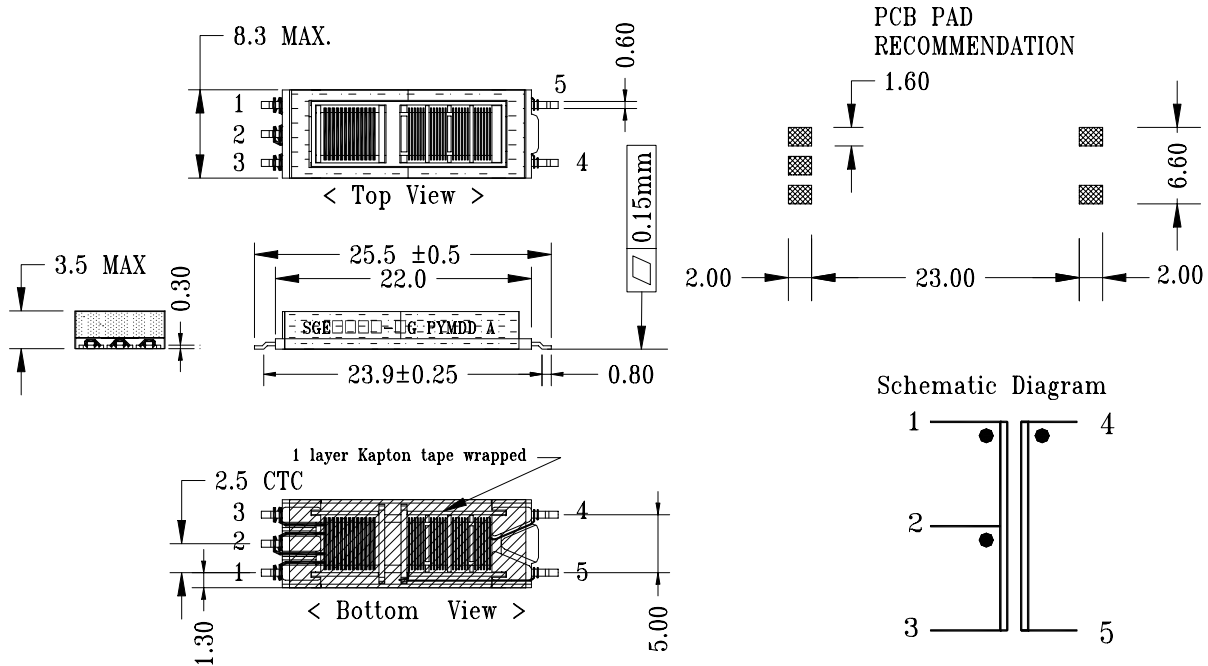
**ELECTRICAL CHARACTERISTICS**

Items	Inductance (@ 10KHz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	22	29	37	R <sub>DC</sub> 1-2, R <sub>DC</sub> 2-3(mΩ)	100	118	128
L4-5 (mH)	300	433	547	R <sub>DC</sub> 4-5 (Ω)	470	493	560
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
	6.2	6.7	7.4	Quality Factor Q <sub>1-3</sub>	30	50	
L <sub>LKG4-5</sub> (mH)	NA	NA	NA	Quality Factor Q <sub>4,5</sub>	NA	NA	NA
<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		1500V <sub>RMS</sub> , 3sec.		Secondary to Core		1500V <sub>RMS</sub> min. ( 1min)	
Max Output Voltage		1000V <sub>RMS</sub>		Primary to Core		750V <sub>RMS</sub> min.	
Max Output Power		2.4W		Primary to Secondary		1000V <sub>RMS</sub> 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**



**Microsemi**<sup>®</sup>

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

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**NOTES**

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