

**2.4W LMT2608 80.0:1 Transformer**
**DESCRIPTION**

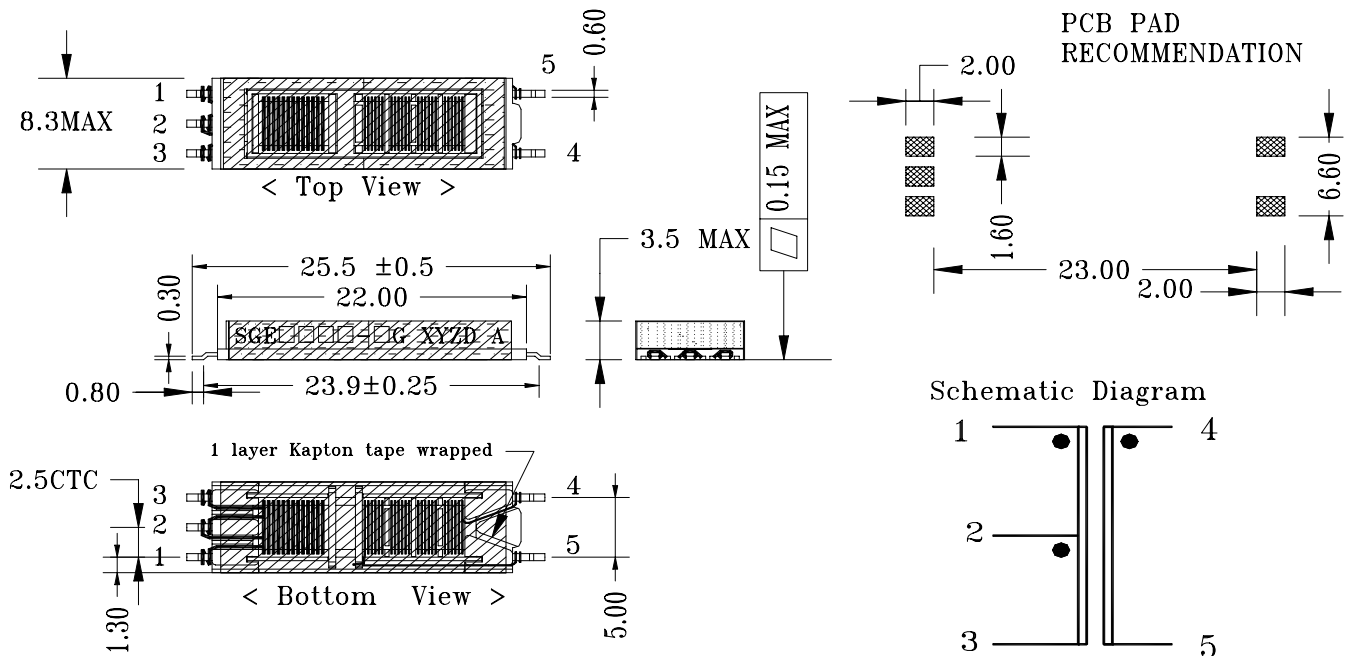
This document describes and specifies the electrical and mechanical characteristics of the SGE2690-1G high voltage transformer for CCFL inverter power supplies. SGE2690-1G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-4.

**ELECTRICAL CHARACTERISTICS**

Items	Inductance (@ 10KHz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	13.8	17	21.8	R <sub>DC</sub> 1-2, R <sub>DC</sub> 2-3(mΩ)	87	95	102
L4-5 (mH)	310	426	537	R <sub>DC</sub> 4-5 (Ω)	470	490	510
L <sub>LKG1-2</sub> , L <sub>LKG2-3</sub> (μH)	Inductance (@ 100KHz, 1V)			R <sub>DC</sub> 1-2 / R <sub>DC</sub> 2-3	0.96	1	1.04
	3.6	4.1	4.6				
L <sub>LKG4-5</sub> (mH)	NA	NA	NA	<b>Secondary Self Capacitance</b> ( HP4192A 1MHz C meter, 30mVrms)			
				C <sub>4.5</sub> (pF)	1.5	2.5	3.5
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	1200V <sub>RMS</sub> , 3sec.			Secondary to Core	1500V <sub>RMS</sub> min. ( 60sec)		
Max Output Voltage	850V <sub>RMS</sub>			Primary to Core	750V <sub>RMS</sub> min.		
Max Output Power	2.4W			Primary to Secondary	750V <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	0.23φ, Single Insulation, 180°C	0.23φ, Single Insulation, 180°C	0.03φ, Triple Insulation, 180°C
Number of Turns	10	10	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** – SGE2690-1G: MSC PN, XYZ: Datecode (X:YR, YZ=WK), D: Plant Code, A: Rev.#

**PACKAGING SPEC AND ORDER INFORMATION**

**Packaging Order Information** – SGE2690-1GTR (Tape and Reel )

**TAPE & REEL** : Refer to SGE2604-4 specification



**Microsemi**<sup>®</sup>

Specification Number  
**SGE2690-1G**  
Revision. A (090605)

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**NOTES**

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