

## 2.4W LMT2608 66.7:1 Transformer

### DESCRIPTION

This document describes and specifies the electrical and mechanical characteristics of the SGE2678-1G high voltage transformer for CCFL inverter power supplies. SGE2678-1G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-4.

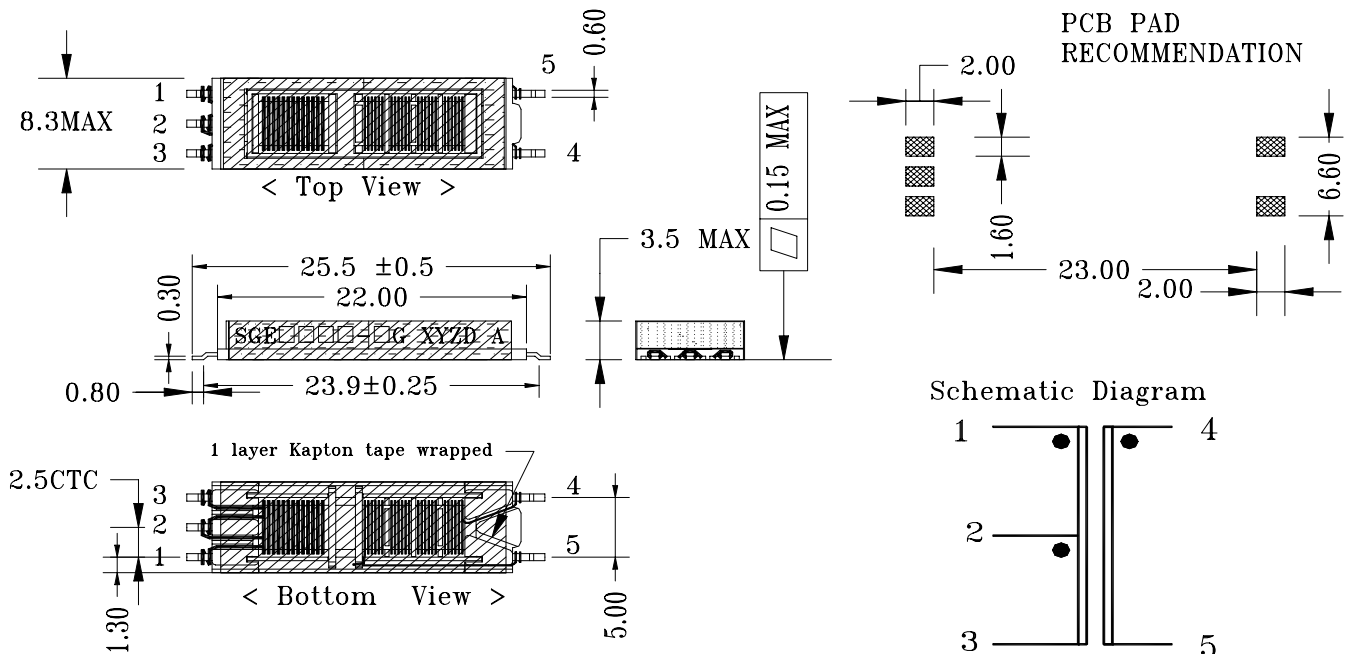
### ELECTRICAL CHARACTERISTICS

Items	Inductance (@ 10Khz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	19	29	39	R <sub>DC</sub> 1-2, R <sub>DC</sub> 2-3(mΩ)	100	110	120
L4-5 (mH)	265	505	735	R <sub>DC</sub> 4-5 (Ω)	470	496	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
	4.7	5.8	6.9				
L <sub>LKG4-5</sub> (mH)	NA	NA	NA	Secondary Self Capacitance ( HP4192A 1MHz C meter, 30mVrms)			
				C <sub>4.5</sub> (pF)	1.9	2.2	3
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	0.18φ, Single Insulation, 180°C		0.03φ, Triple Insulation, 180°C
Number of Turns	12	12	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** – SGE2678-1G: MSC PN, XYZ: Datecode (X:YR, YZ=WK), D: Plant Code, A: Rev.#

### PACKAGING SPEC AND ORDER INFORMATION

**Packaging Order Information** – SGE2678-1GTR (Tape and Reel )

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



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Specification Number  
**SGE2678-1G**  
Revision. A (090605)

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**NOTES**

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