

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.

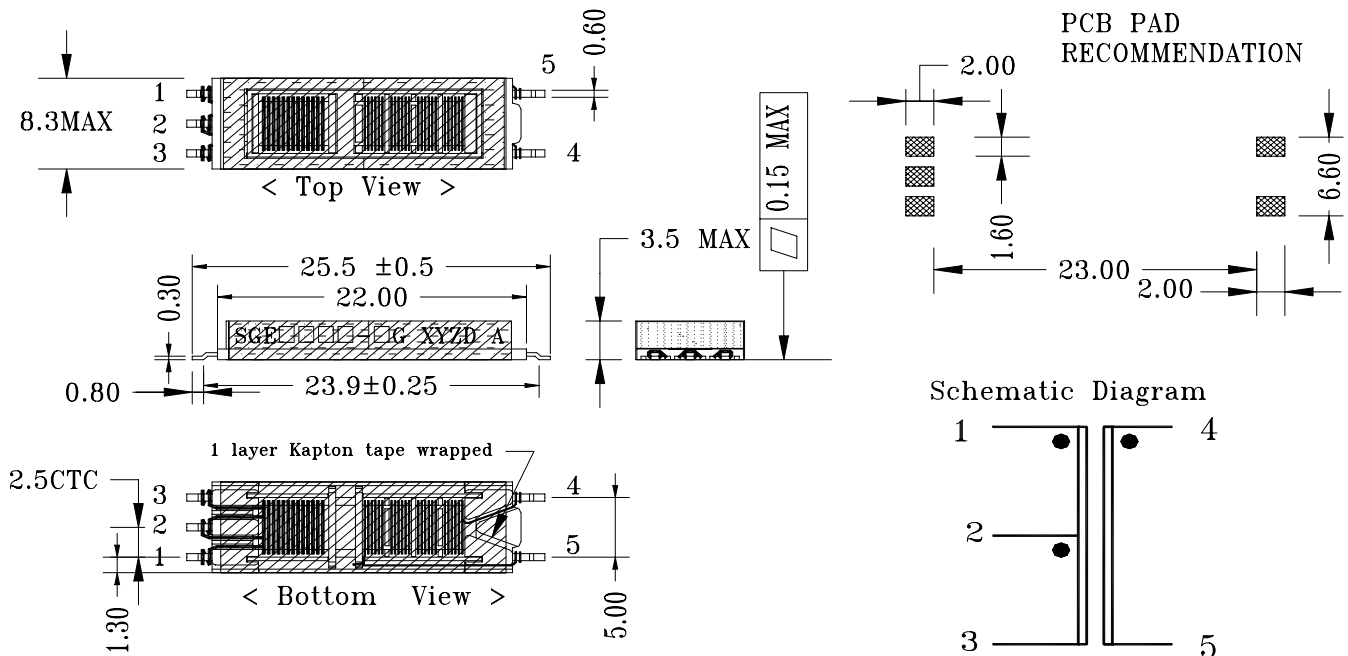
ELECTRICAL CHARACTERISTICS

| 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 _{DC} 1-2, R _{DC} 2-3(mΩ) | 87 | 95 | 102 |
| L4-5 (mH) | 310 | 426 | 537 | R _{DC} 4-5 (Ω) | 470 | 490 | 510 |
| L _{LKG1-2} , L _{LKG2-3} (μH) | Inductance (@ 100KHz, 1V) | | | R _{DC} 1-2 / R _{DC} 2-3 | 0.96 | 1 | 1.04 |
| | 3.6 | 4.1 | 4.6 | | | | |
| L _{LKG4-5} (mH) | NA | NA | NA | Secondary Self Capacitance (HP4192A 1MHz C meter, 30mVrms) | | | |
| | | | | C _{4.5} (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 _{RMS} , 3sec. | | | Secondary to Core | 1500V _{RMS} min. (60sec) | | |
| Max Output Voltage | 850V _{RMS} | | | Primary to Core | 750V _{RMS} min. | | |
| Max Output Power | 2.4W | | | Primary to Secondary | 750V _{RMS} 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[®]

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

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NOTES

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