

4W LMT2110 42.1:1 Transformer

DESCRIPTION

This document describes and specifies the electrical and mechanical characteristics of the SGE2689-1G high voltage transformer for CCFL inverter power supplies. SGE2689-1G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-3.

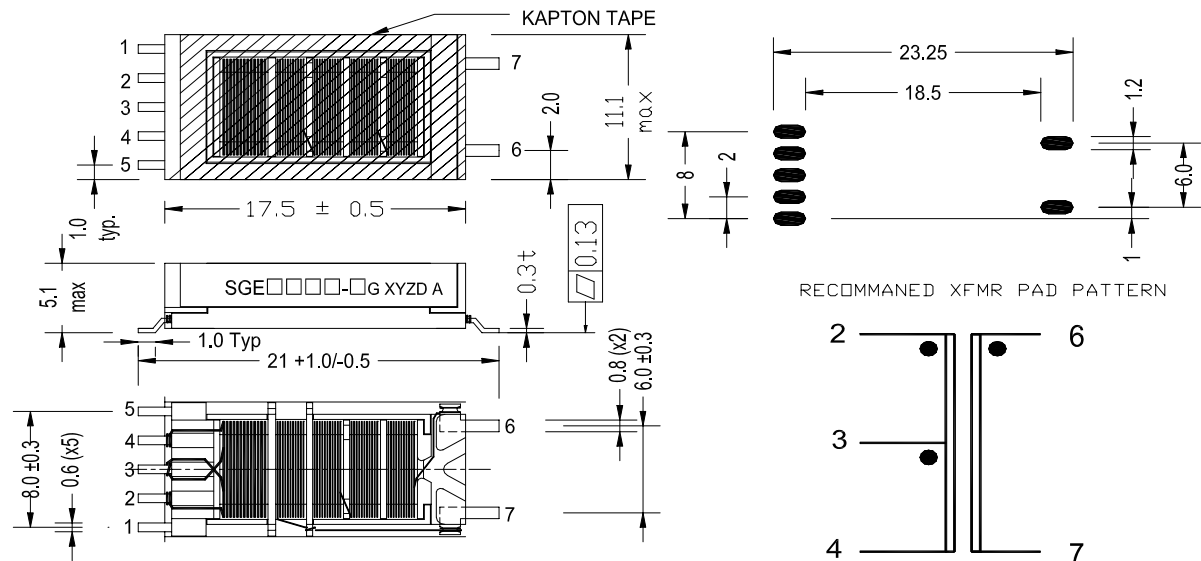
ELECTRICAL CHARACTERISTICS

Items	Inductance (@ 10KHz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L2-3, L3-4 (μH)	157	185	214	R _{DC} 2-3, R _{DC} 3-4(mΩ)	200	215	230
L6-7 (mH)	1024	1213	1396	R _{DC} 6-7 (Ω)	350	361	390
L _{LKG} 2-3, L _{LKG} 3-4 (μH)	Inductance (@ 100KHz, 1V)			R _{DC} 2-3 / R _{DC} 3-4	0.96	1	1.04
L _{LKG} 6-7 (mH)	10	11	12	Secondary Self Capacitance (HP4192A 1MHz C meter, 30mVrms)			
	NA	NA	NA	C ₆₋₇ (pF)	2.0	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	1500V _{RMS} , 3sec.			Secondary to Core	2000V _{RMS} min. (60sec)		
Max Output Voltage	1000V _{RMS}			Primary to Core	1000V _{RMS} min.		
Max Output Power	4W			Primary to Secondary	1000V _{RMS} min.		

WINDING SPECIFICATIONS

	Primary		Secondary
	Pin 2 – 3	Pin 3 – 4	Pin 6 – 7
Winding Sequence	2S – 3F	3S – 4F	6S – 7F
Wire Size & Type	#33, Single Insulation, 180°C	#33, Single Insulation, 180°C	#46, Triple Insulation, 180°C
Number of Turns	19	19	1600
Winding Method	Bifilar		

PHYSICAL SPECIFICATIONS & WIRING DIAGRAM



Note : This Transformer is designed for single ended application. Pin 7 must be connected to low voltage side or ground.

PART MARKING

SGE□□□□-□G XYZD A – SGE2689-1G: MSC PN, XYZ: Datecode (X:YR, YZ=WK), D: Plant Code, A: Rev.#

PACKAGING SPEC AND ORDER INFORMATION

Packaging Order Information – SGE2689-1G (Standard for TRAY)

SGE2689-1GTR (Tape and Reel)

TAPE & REEL : Refer to SGE2604-3 specification



Microsemi[®]

Specification Number
SGE2689-1G
Revision. A (090605)

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NOTES

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