

6W LMT3811 42.5:1 Transformer
DESCRIPTION

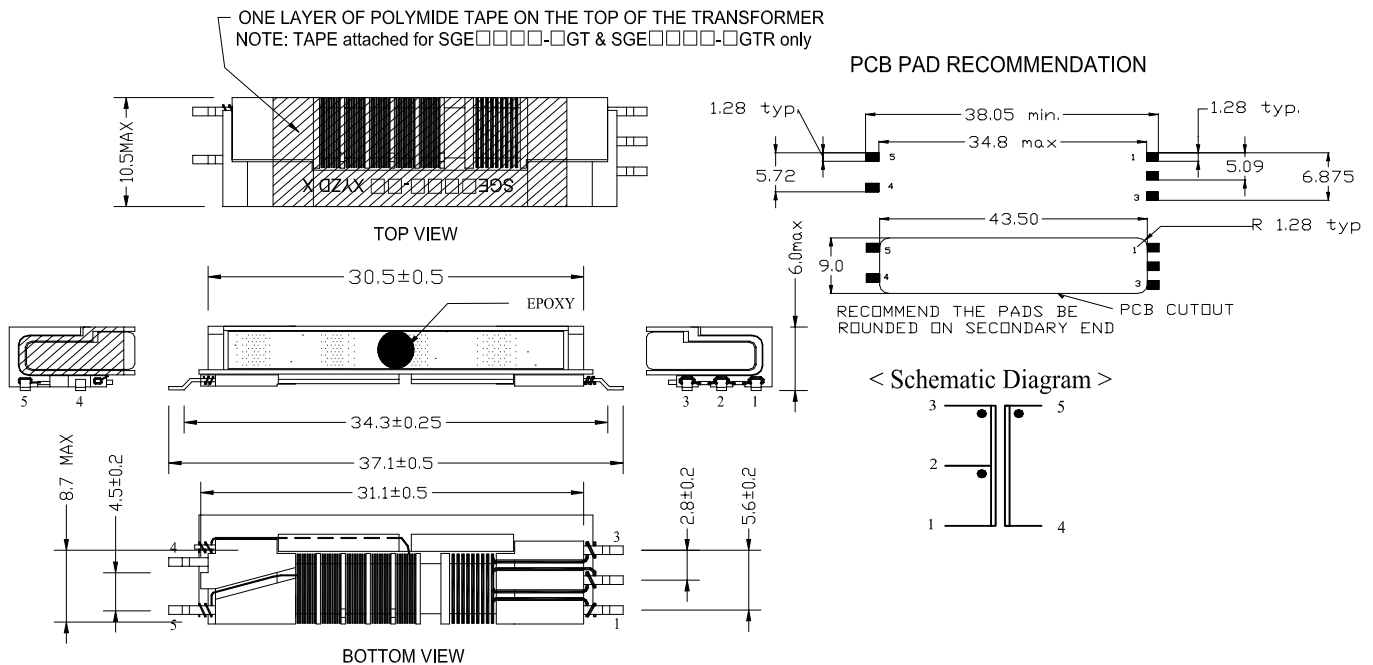
This document describes and specifies the electrical and mechanical characteristics of the SGE2643-3G high voltage transformer for CCFL inverter power supplies. SGE2643-3G is the RoHS compliant and Lead free transformer. For Reliability and Safety Specification, refer to SGE2606-2.

ELECTRICAL CHARACTERISTICS

Items	Inductance (@ 10KHz, 0.1V)			Items	DC. Resistance		
	Min	Nom	Max		Min	Nom	Max
L1-2, L2-3 (μH)	124	144	168	R _{DC} 1-2, R _{DC} 2-3(mΩ)	170	190	210
L4-5 (mH)	890	1012	1210	R _{DC} 4-5 (Ω)	405	415	430
L _{LKG1-2} , L _{LKG2-3} (μH)	Inductance (@ 100KHz, 1V)			R _{DC} 1-2 / R _{DC} 2-3	0.96	1	1.04
	14.7	15.7	16.7				
L _{LKG4-5} (mH)	NA	NA	NA	Secondary Self Capacitance (HP4192A 1MHz C meter, 30mVrms)			
				C _{4.5} (pF)	2.0	2.5	3.0
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	2000V _{RMS} , 3sec.			Secondary to Core	2500V _{RMS} min. (60sec)		
Max Output Voltage	1100V _{RMS}			Primary to Core	1000V _{RMS} min.		
Max Output Power	6W			Primary to Secondary	2500V _{RMS} min.		

WINDING SPECIFICATIONS

	Primary		Secondary
	Pin 1 – 2	Pin 2 – 3	Pin 4 – 5
Winding Sequence	2S – 1F	3S – 2F	5S – 4F
Wire Size & Type	#35x2, Single Insulation, 180°C	#35x2, Single Insulation, 180°C	#46, Triple Insulation, 180°C
Number of Turns	20	20	1700
Winding Method	Bifilar		Skip sector 1. (Empty)

PHYSICAL SPECIFICATIONS & WIRING DIAGRAM

PART MARKING

SGE□□□□-□G XYZD A – SGE2643-3G: MSC PN, XYZ: Datecode (X:YR, YZ=WK), D: Plant Code, A: Rev.#

PACKAGING SPEC AND ORDER INFORMATION

Packaging Order Information – SGE2643-3G (Standard for TRAY)
 SGE2643-3GTR (Tape and Reel)
 SGE2643-3GT (with Polyimide Tape for TRAY)

TAPE & REEL : Refer to SGE2604-4 specification



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Specification Number
SGE2643-3G
Revision. A (082905)

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NOTES

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