REVISIONS

REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	12/15/11
02	TIGHTEN INDUCTOR TOLERANCE AS PER CUSTOMER REQUEST	EE13542	02/29/12

PAGE 4 IS FOR INTERNAL ONLY

PART NUMBER	PART DESCRIPTION
835-01159F	RoHS compliant per EU Directive 2002/95/EC(without exemption of solder content) and RoHS 6

TITLE

TRANSFORMER, PUSH-PULL, SMT, 12 PIN

WARNING !

ALL SHEETS OF THIS DOCUMENT ARE CONTROLLED DOCUMENTATION AND ARE NOT TO BE RELEASED OUTSIDE OF E&E OR ITS SUB-CONTRACTORS WITHOUT AUTHORIZATION.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.

TOLERANCE ARE:

INCH		mm		ANGLE	
.XXX	.005	.XX	.13	X.X	0.3
.XX	.02	.X	.5	X.	1

APPROVALS		DATE
DRAWN BY	F.W NIE	02/29/12
PROJ. ENG	J.P. AI	02/29/12
APPROVED BY	J.P. AI	02/29/12
Q.A.	C.S. WANG	02/29/12

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DRAWING NO./MODEL: 835-01159F

REV: 02

SCALE: DO NOT SCALE

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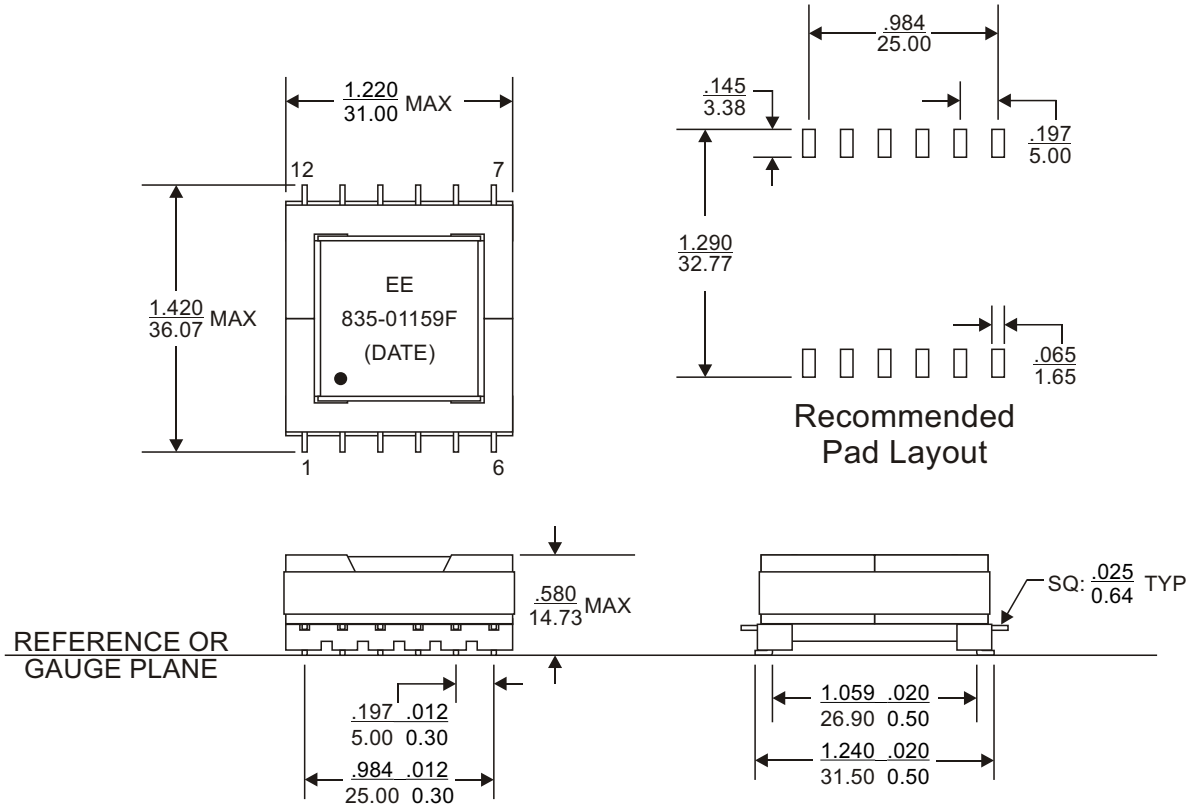

MECHANICAL OUTLINE

1. Dimension are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in mm.
2. Unless otherwise specified, all tolerance are $\frac{.010}{0.25}$.
3. Coplanarity: $\frac{.005}{0.13}$ max.
4. "(DATE)" includes at least the manufacturing date code(in YYWW format).

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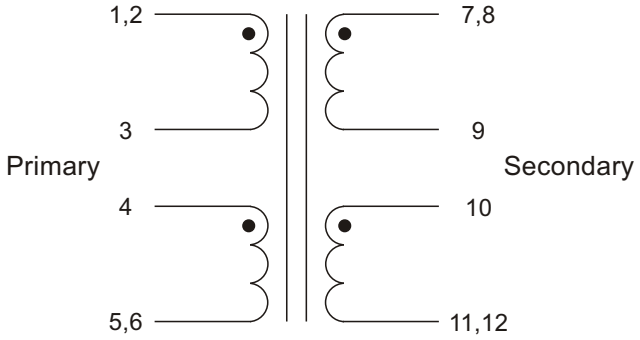
ELECTRICAL SPECIFICATION @25 C:

PARAMETERS	UNIT	LIMITS	
Turns Ratio(1,2-3):(4-5,6):(7,8-9):(10-11,12)	-	1:1:5.5:5.5 2%	
Polarity	-	Per Schematic	
Ls(1,2-3)@100kHz, 0.1Vrms	uH	7.6 28%	
LL(1,2-3), short 4-5-6-7-8-9-10-11-12@300kHz, 0.1Vrms	uH	0.2 Max	
DCR(7,8-9)	m	50 Typ	55 Max
DCR(10-11,12)	m	51.5 Typ	56.5 Max
DCR(1,2-3)	m	3.2 Typ	3.5 Max
DCR(4-5,6)	m	3.4 Typ	3.8 Max
HIPOT(1,2,3,4,5,6):(7,8,9,10,11,12), 1 minute	Vrms	1500 Min	



SCHEMATIC

5. Input voltage: 11.40V - 16.0V, 12V nominal, Output voltage: 54.0V, Output current: 2.037A, Switching Frequency: 300kHz, Topology: Push-pull.

6. Operating temperature: -40 C to +85 C. The part temperature (ambient temperature + temperature rise) should not exceed the upper limit of the operating temperature under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

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