
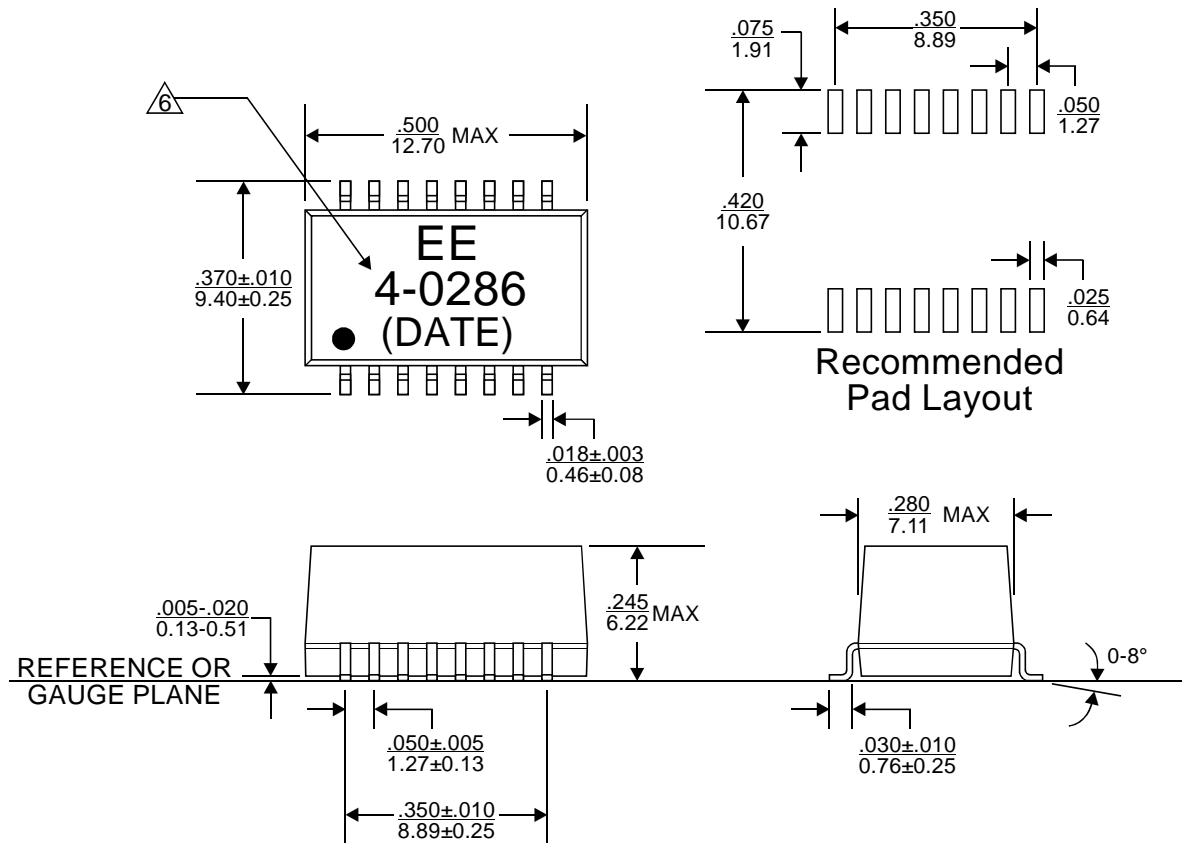


REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE FOR RFQ#D2004-5513	N/A	08/31/04
02	CORRECT TYPO ERROR	EE5722	10/12/04
03	UPDATE DRAWING	EE6699	06/03/05

PART NUMBER		PART DESCRIPTION		<b>PAGE 4 IS FOR INTERNAL ONLY</b> TITLE TRANSFORMER, 100BASE-T(PoE), SINGLE, SOIC, 16 PIN																							
824-00286		Standard version, with lead(Pb)																									
824-00286F		RoHS compliant per EU Directive 2002/95/EC(without exemption of solder content)																									
<p align="center"><b><u>WARNING !</u></b></p> <p>ALL SHEETS OF THIS DOCUMENT ARE CONTROLLED DOCUMENTATION AND ARE NOT TO BE RELEASED OUTSIDE OF E&amp;E OR ITS SUB-CONTRACTORS WITHOUT AUTHORIZATION.</p>		UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.		 <b>E &amp; E Magnetic Products Ltd.</b>																							
		<p align="center"><u>TOLERANCE ARE:</u></p> <table border="0"> <tr> <td>INCH</td> <td>mm</td> <td>ANGLE</td> </tr> <tr> <td>.XXX ± .005</td> <td>.XX ± 0.13</td> <td>X.X ± 0.3</td> </tr> <tr> <td>.XX ± .02</td> <td>.X ± 0.5</td> <td>X. ± 1</td> </tr> </table>		INCH	mm	ANGLE	.XXX ± .005	.XX ± 0.13	X.X ± 0.3	.XX ± .02	.X ± 0.5	X. ± 1	<table border="1"> <thead> <tr> <th>APPROVALS</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td>DRAWN BY <b>S. CHEUNG</b></td> <td>06/03/05</td> </tr> <tr> <td>PROJ. ENG <b>D. YUNG</b></td> <td>06/03/05</td> </tr> <tr> <td>APPROVED BY <b>V. TSUI</b></td> <td>06/03/05</td> </tr> <tr> <td>Q.A. <b>C.M. TSUI</b></td> <td>06/03/05</td> </tr> </tbody> </table>		APPROVALS	DATE	DRAWN BY <b>S. CHEUNG</b>	06/03/05	PROJ. ENG <b>D. YUNG</b>	06/03/05	APPROVED BY <b>V. TSUI</b>	06/03/05	Q.A. <b>C.M. TSUI</b>	06/03/05	DRAWING NO./MODEL <p align="center"><b>824-00286</b></p>		REV <p align="center"><b>03</b></p>
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SCALE <b>DO NOT SCALE</b>		PAGE 1 OF 4																									



1. Dimensions are specified in  $\frac{\text{inches}}{\text{mm}}$  with higher precedence in inches.
2. Unless otherwise specified, all tolerances are  $\pm \frac{.010}{.25}$ .
3. Coplanarity:  $\frac{.004}{.10}$  max.
4. "(DATE)" includes at least the manufacturing date code (in YYWW format) plus two character country code.
5. Dimensions are to be measured in accordance with JEDEC standard 95-1.

6. For RoHS compliant version, 824-00286F, the part will be marked with "4-0286F", instead of "4-0286".

## MECHANICAL OUTLINE



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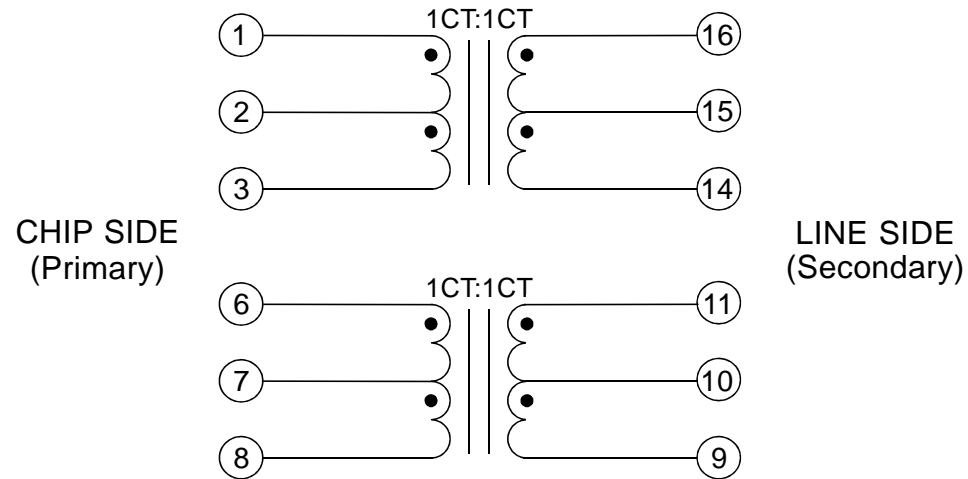
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## SCHEMATIC

### ELECTRICAL SPECIFICATION @25°C:

PARAMETERS	UNIT	EACH CHANNEL
Turns Ratio (Primary):(Secondary)	-	1CT:1CT $\pm$ 3%
Polarity (Primary):(Secondary)	-	Per Schematic
Inductance, Ls(Secondary) @100KHz, 0.1Vrms, 8mADC	uH	350 Min
Insertion Loss @0.1-100MHz	dB	1.2 Max
Return Loss @1-30MHz	dB	16.0 Min
Return Loss @40MHz	dB	14.0 Min
Return Loss @50MHz	dB	13.0 Min
Return Loss @60-80MHz	dB	12.0 Min
DM-CM Rejection Ratio @0.1-100MHz (for refer. only)	dB	33.0 Min
Crosstalk @0.1-100MHz, between channels (for refer. only)	dB	35.0 Min
Hipot (Primary):(Secondary)	Vrms	1500 Min

7. Operating Temperature: 0°C to +70°C.

8. Balanced DC line current capability (Line side): 350mADC maximum.



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