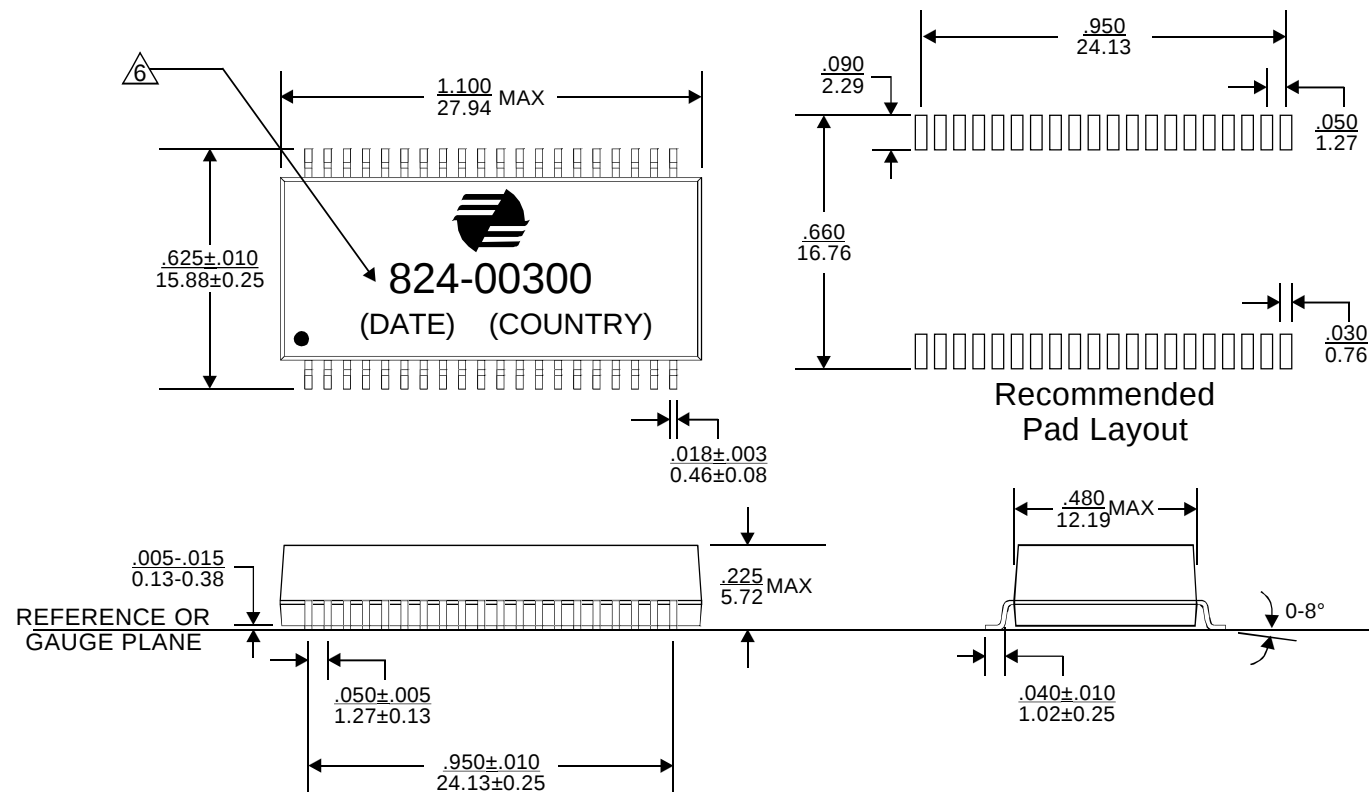


REVISIONS			
REV.	DESCRIPTION	ECN NO.	DATE
01	FIRST RELEASE	N/A	12/22/04

PART NUMBER		SOLDER CONTENT		PART DESCRIPTION		PAGE 4 IS FOR INTERNAL ONLY	
824-00300		Sn/Pb		Standard version, containing lead		TITLE	
824-00300F		Sn/Ag/Cu		Lead(Pb)-Free version		TRANSFORMER, 100BASE-T, QUAD, SOIC, 40 PIN, EXT. TEMP.	
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		12/22/04	
				S. CHEUNG		12/22/04	
				PROJ. ENG		12/22/04	
				D. YUNG		12/22/04	
				APPROVED BY		12/22/04	
V. TSUI		12/22/04					
Q.A.		12/22/04					
C.M. TSUI		12/22/04					



1. Dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in inches.
2. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.
3. Coplanarity: $\frac{.004}{0.10}$ max.
4. "(DATE)" includes at least the manufacturing date code (in YYWW format).
5. Dimensions are to be measured in accordance with JEDEC standard 95-1.

6. For lead-free version, 824-00300F, the part will be marked with "824-00300F", instead of "824-00300".

MECHANICAL OUTLINE



E & E Magnetic Products Ltd.

DRAWING NO./MODEL

824-00300

REV

01

SCALE

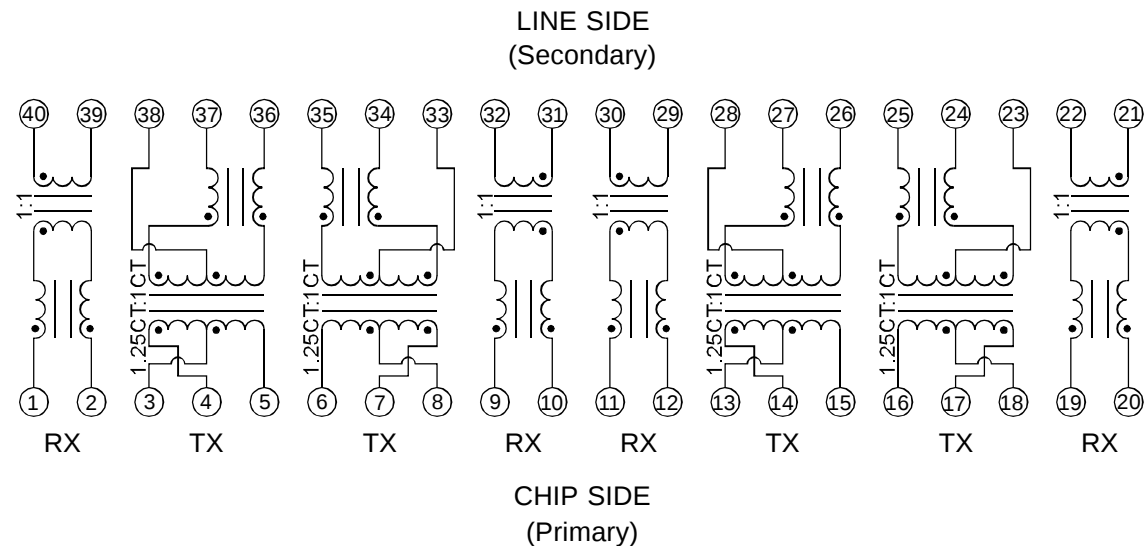
DO NOT SCALE

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SCHEMATIC

ELECTRICAL SPECIFICATION @25°C:

PARAMETERS	UNIT	Tx-Side	Rx-Side
Turns Ratio (Primary):(Secondary)	-	1.25CT:1CT $\pm$ 3%	1:1 $\pm$ 3%
Polarity (Primary):(Secondary)	-	Per Schematic	Per Schematic
Inductance, Ls(Primary) @100kHz, 0.1Vrms, 8mAdc	uH	350 Min	350 Min
Insertion Loss @0.1-100MHz	dB	1.1 Max	1.1 Max
Return Loss @1-30MHz	dB	18.0 Min	18.0 Min
Return Loss @40MHz	dB	15.5 Min	15.5 Min
Return Loss @50MHz	dB	13.5 Min	13.5 Min
Return Loss @60-80MHz	dB	12.0 Min	12.0 Min
CMRR @0.1-100MHz (for refer. only)	dB	30.0 Min	30.0 Min
Crosstalk @0.1-100MHz (for refer. only)	dB	35.0 Min	
HIPOT (Primary):(Secondary)	Vrms	1500 Min	1500 Min

7. OPERATING TEMPERATURE: -40°C to +85°C.

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824-00300	01
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