
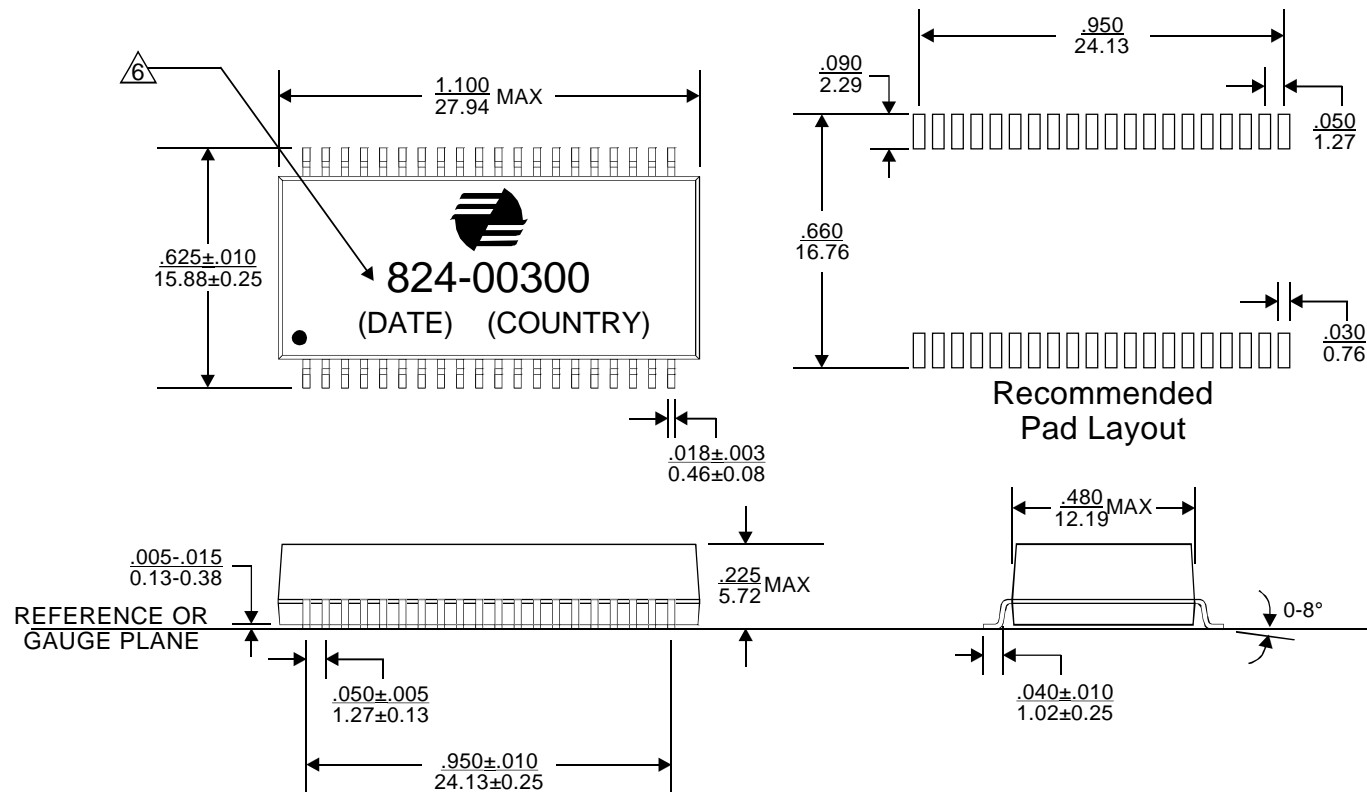


| REVISIONS | | | |
|-----------|---------------|---------|----------|
| REV. | DESCRIPTION | ECN NO. | DATE |
| 01 | FIRST RELEASE | N/A | 12/22/04 |
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| PART NUMBER | SOLDER CONTENT | PART DESCRIPTION | PAGE 4 IS FOR INTERNAL ONLY | | | | | | | | | | |
|--|---|-----------------------------------|--|-----------|-------------------|-----------|-----------|-----------|---------|--------|-----------|------|---|
| 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. | | | | | | | | | | |
| <p align="center">WARNING !</p> <p>ALL SHEETS OF THIS DOCUMENT ARE CONTROLLED DOCUMENTATION AND ARE NOT TO BE RELEASED OUTSIDE OF E&E OR ITS SUB-CONTRACTORS WITHOUT AUTHORIZATION.</p> | <p>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCH/mm.</p> <p align="center">TOLERANCE ARE:</p> <table border="0"> <tr> <td>INCH</td> <td>mm</td> <td>ANGLE</td> </tr> <tr> <td>.XXX ± .005</td> <td>.XX ± .13</td> <td>X.X ± 0.3</td> </tr> <tr> <td>.XX ± .02</td> <td>.X ± .5</td> <td>X. ± 1</td> </tr> </table> | INCH | mm | ANGLE | .XXX ± .005 | .XX ± .13 | X.X ± 0.3 | .XX ± .02 | .X ± .5 | X. ± 1 | APPROVALS | DATE |  <p>E & E Magnetic Products Ltd.</p> |
| | | INCH | mm | ANGLE | | | | | | | | | |
| | | .XXX ± .005 | .XX ± .13 | X.X ± 0.3 | | | | | | | | | |
| | | .XX ± .02 | .X ± .5 | X. ± 1 | | | | | | | | | |
| | | DRAWN BY | S. CHEUNG | 12/22/04 | DRAWING NO./MODEL | | | | | | | | |
| PROJ. ENG | D. YUNG | 12/22/04 | | | | | | | | | | | |
| APPROVED BY | V. TSUI | 12/22/04 | 824-00300 | | | | | | | | | | |
| Q.A. | C.M. TSUI | 12/22/04 | | | | | | | | | | | |
| | | SCALE | PAGE | OF | | | | | | | | | |
| | | DO NOT SCALE | 1 | 4 | | | | | | | | | |



1. Dimensions are specified in $\frac{\text{inches}}{\text{mm}}$ with higher precedence in inches.
2. Unless otherwise specified, all tolerances are $\pm \frac{.010}{0.25}$.
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

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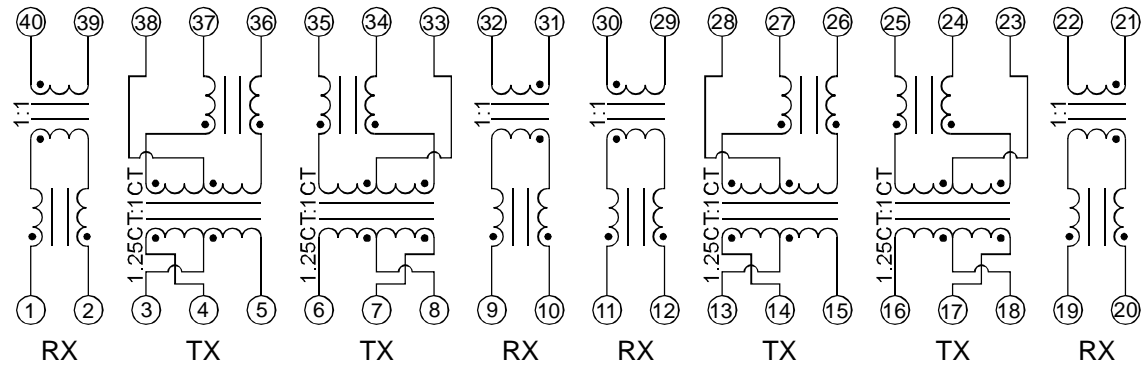
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LINE SIDE
(Secondary)



CHIP SIDE
(Primary)

SCHEMATIC

ELECTRICAL SPECIFICATION @25°C:

| PARAMETERS | UNIT | Tx-Side | Rx-Side |
|---|------|-----------------|---------------|
| Turns Ratio (Primary):(Secondary) | - | 1.25CT:1CT ± 3% | 1:1 ± 3% |
| Polarity (Primary):(Secondary) | - | Per Schematic | Per Schematic |
| Inductance, Ls(Primary) @100kHz, 0.1Vrms, 8mA _{dc} | 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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