

# TOKEN RING MAGNETICS

## Impedance Matching and Isolation Transformers



LM00600

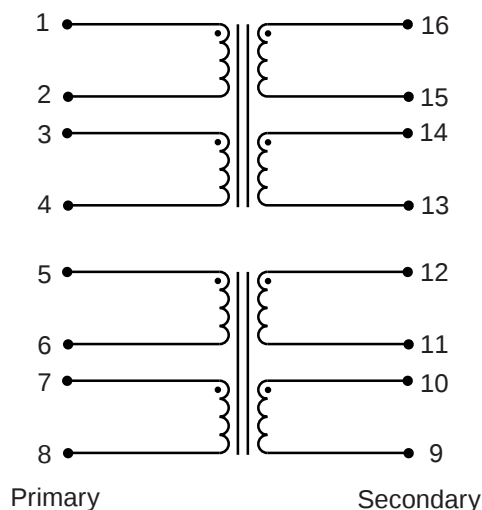
- Designed to meet IEEE 802.5 Token Ring standards
- Rated to 225° C peak IR reflow temperature
- Operating temperature 0° to 70° C
- Impedance matching or isolation transformer application
- STP/UTP compatible impedances
- Integrated transformers and common mode chokes

### ELECTRICAL SPECIFICATIONS AT 25° C

| Part Number  | Turns Ratio           | OCL<br>μH min | Coupling<br>Capacitance<br>pF max | Leakage<br>Inductance<br>μH max | DCR<br>Ω max |      | Hipot<br>Vrms<br>min |
|--------------|-----------------------|---------------|-----------------------------------|---------------------------------|--------------|------|----------------------|
|              |                       |               |                                   |                                 | Pri          | Sec  |                      |
| A553-1506-6E | 1 : 1 : 0.816 : 0.816 | 100           | 10                                | 0.10                            | 0.20         | 0.20 | 2000                 |
| A553-5006-KE | 1 : 1 : 2 : 2         | 125 ±30%      | 10                                | 0.10                            | 0.20         | 0.40 | 2000                 |
| S553-1506-6F | 1 : 1 : 0.816 : 0.816 | 100           | 10                                | 0.20                            | 0.20         | 0.20 | 2000                 |
| S553-5006-JF | 1 : 1 : 1 : 1         | 125 ±30%      | 15                                | 0.10                            | 0.20         | 0.20 | 2000                 |
| S553-5006-KF | 1 : 1 : 2 : 2         | 125 ±30%      | 10                                | 0.10                            | 0.20         | 0.40 | 1000                 |
| S553-5999-40 | 1CT : 1CT             | 616           | 30                                | 0.50                            | 0.70         | 1.0  | 500                  |
| S556-5999-01 | 2CT : 1               | 616           | ---                               | 0.70                            | 0.70         | 0.55 | 1500                 |

### SCHEMATICS

A553-1506-6E  
A553-5006-KE  
S553-1506-6F  
S553-5006-JF  
S553-5006-KF

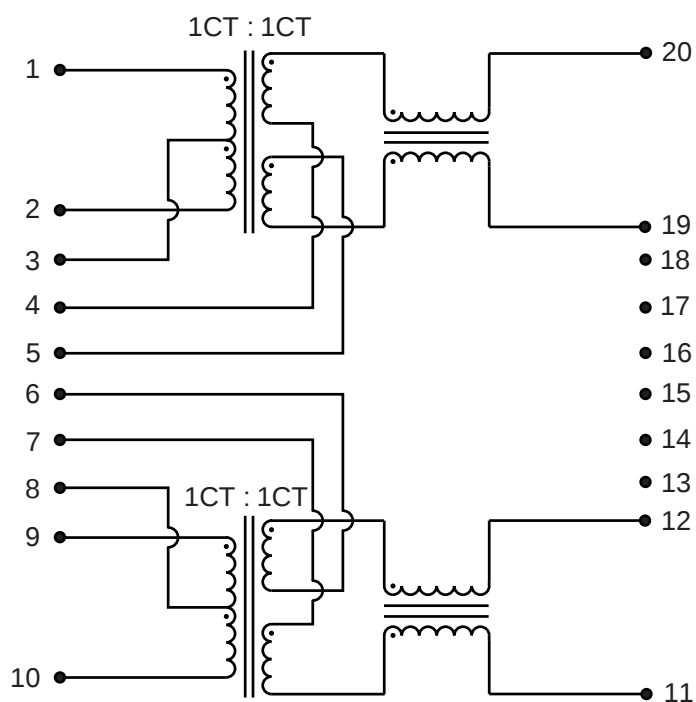


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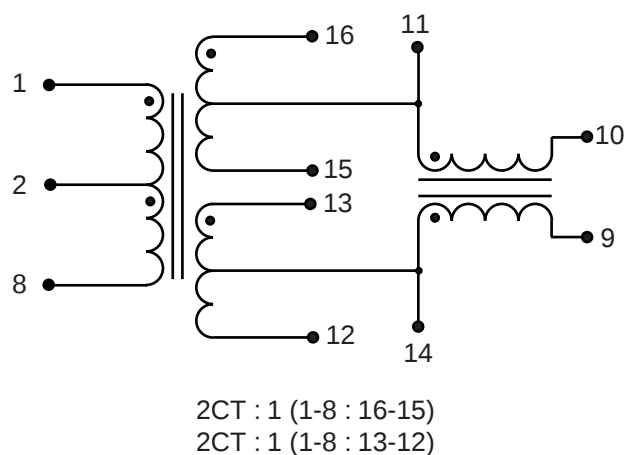
Bel Fuse Inc. 198 Van Vorst Street, Jersey City, NJ 07302 • Tel 201-432-0463 • Fax 201-432-9542 • www.belfuse.com

### SCHEMATICS

S553-5999-40



S556-5999-01



# TOKEN RING MAGNETICS

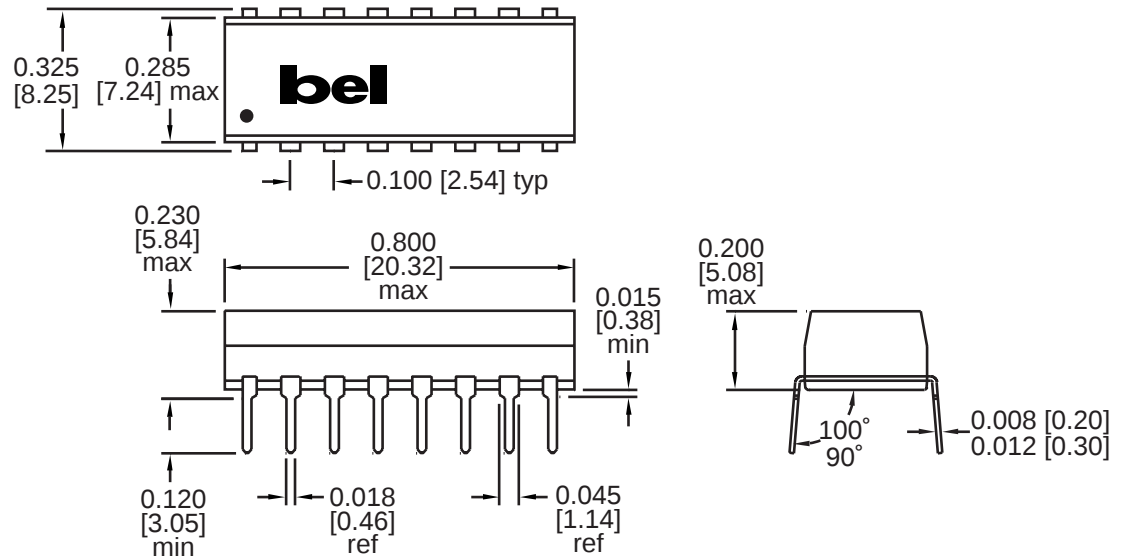
## Impedance Matching and Isolation Transformers

**bel**

LM00600

### MECHANICALS

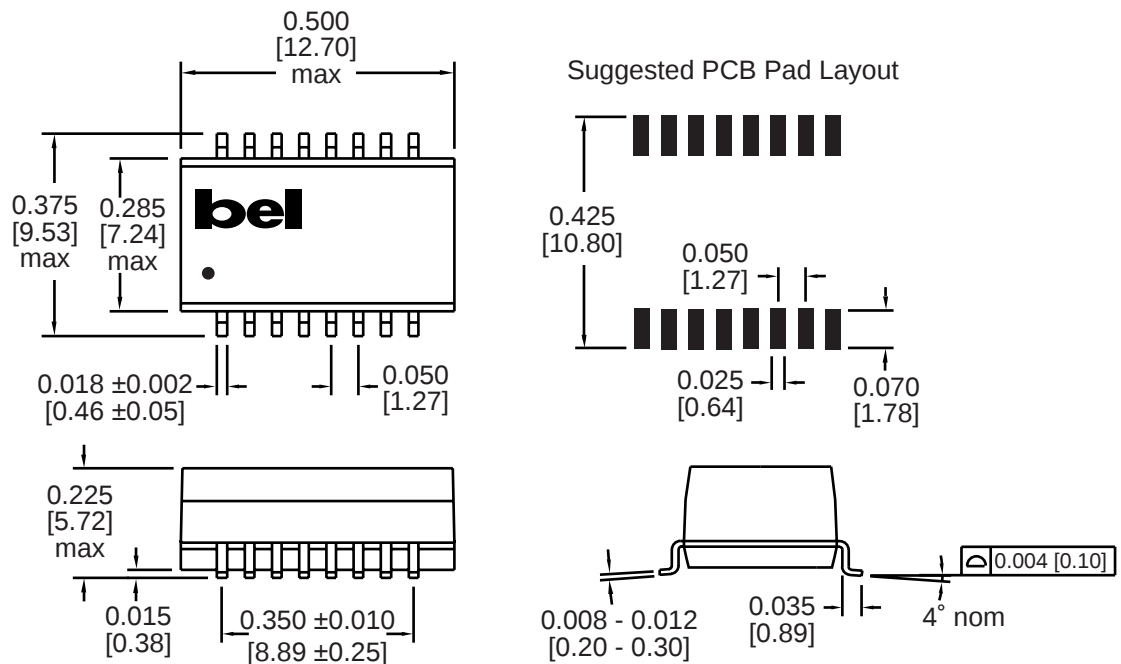
A553-1506-6E  
A553-5006-KE



Dimensions are in inches [millimeters].

Standard dimension tolerance is  $\pm 0.005$  [0.13] unless otherwise noted.

S553-1506-6F  
S553-5006-JF  
S553-5006-KF  
S556-5999-01



Dimensions are in inches [millimeters].

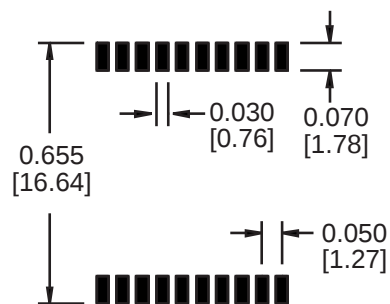
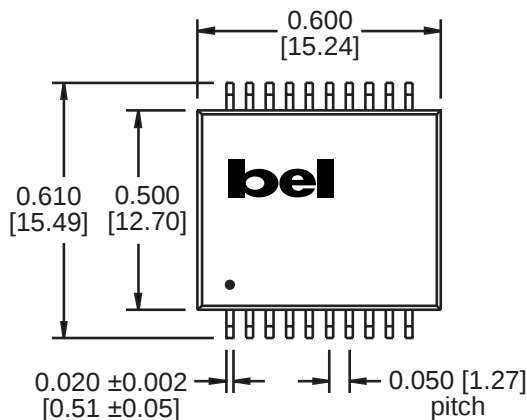
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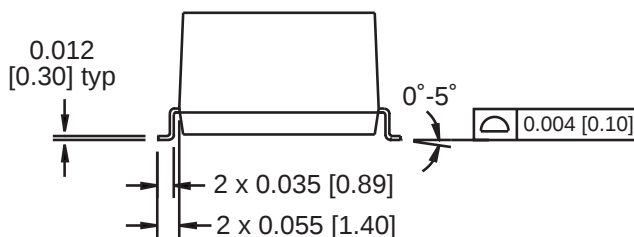
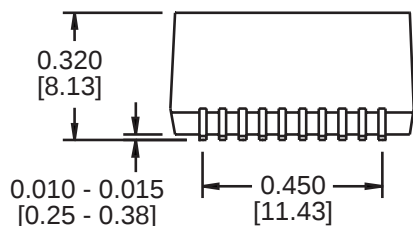
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## MECHANICALS

S553-5999-40



Suggested PCB Pad Layout



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### CORPORATE

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