

# MIL-STD-1553 Transformers

Low profile 3.3V Pulse Transformers.  
Ruggedized

**PulseR**  
Ruggedized Solutions



- Ⓡ Dual ratio in a single transformer package (see Schematic)
- Ⓡ Operating and Storage Temperature: -55 °C to +125 °C
- Ⓡ Weight: ≤5.0 grams
- Ⓡ Applicable specifications
  - Ⓝ MIL-STD-1553B
  - Ⓝ MIL-STD-202
  - Ⓝ MIL-PRF-21038
  - Ⓝ ISO 9001

Ⓡ Maximum Re-flow Temperature for SMT parts: 235°C

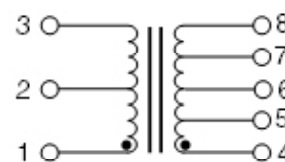
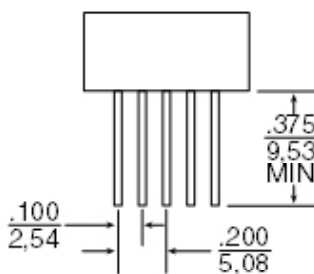
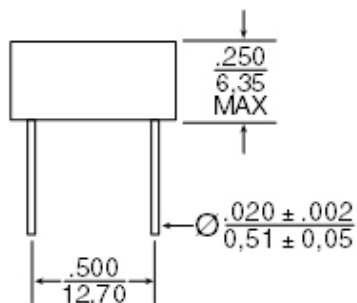
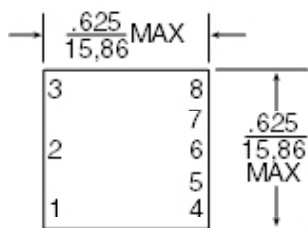
## Electrical Specifications @ 25°C

| Part Number | Terminals                                | Ratio (±3%)                 | DC Resistance (Ω MAX)                  | Impedance (Ω MIN)  | Droop      | Overshoot  | CMR         | Frequency Range (No Load) | IR @ 250Vdc (MIN) | DWV         |
|-------------|------------------------------------------|-----------------------------|----------------------------------------|--------------------|------------|------------|-------------|---------------------------|-------------------|-------------|
| Q1553-70    | 1-3:4-8<br>1-3:5-7                       | 1.0CT:3.0CT<br>1.0CT:2.15CT | 1-3 = 0.35<br>4-8 = 3.50               | 4-8<br>4000        | 20%<br>MAX | ±1V<br>MIN | 45db<br>MIN | 75kHz to<br>1MHz          | 10KMΩ             | 100<br>Vrms |
| SMQ1553-70  | 1-3:4-8<br>1-3:5-7                       | 1CT:3CT<br>1CT:2.15CT       | (1-3) .35<br>(4-8) 3.5                 | 4-8<br>4000        | 20%<br>max | ±1V<br>MAX | 45dB<br>MIN | 75kHz to<br>1MHz          | 10KMΩ             | 100<br>Vrms |
| GL1553-71   | 1-3:4-8<br>1-3:5-7                       | 1CT:3.54CT<br>1CT:2.50CT    | (1-3) 0.35<br>(4-8) 3.5                | 4-8<br>4000        | 20%<br>max | ±1V<br>MAX | 45dB<br>MIN | 75kHz to<br>1MHz          | 10KMΩ             | 100<br>Vrms |
| DGL1553-71  | 1-3:1613/5-7:12-9<br>1-3:15-14/5-7:11-10 | 1CT:3.54CT<br>1CT:2.5CT     | (1-3),(5-7) 0.35<br>(16-13),(12-9) 3.5 | 16-13&12-9<br>4000 | 20%<br>max | ±1V<br>MAX | 45dB<br>MIN | 75kHz to<br>1MHz          | 10KMΩ             | 100<br>Vrms |
| TQ1553-71   | 1-3:4-8<br>1-3:5-7                       | 1CT:3.54CT<br>1CT:2.5CT     | (1-3) 0.35<br>(4-8) 3.5                | 4-8<br>4000        | 20%<br>max | ±1V<br>MAX | 45dB<br>MIN | 75kHz to<br>1MHz          | 10KMΩ             | 100<br>Vrms |

## Mechanical

## Schematic

### Q1553-70



### Notes:

1. All dimensions are in inches.
2. Tolerances: .xx = +.008
3. All specifications and dimensions are subject to change without notice.
4. MSL - 1
5. Tube - 20 pieces

# MIL-STD-1553 Transformers

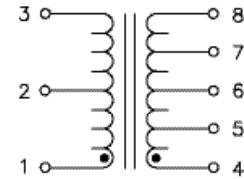
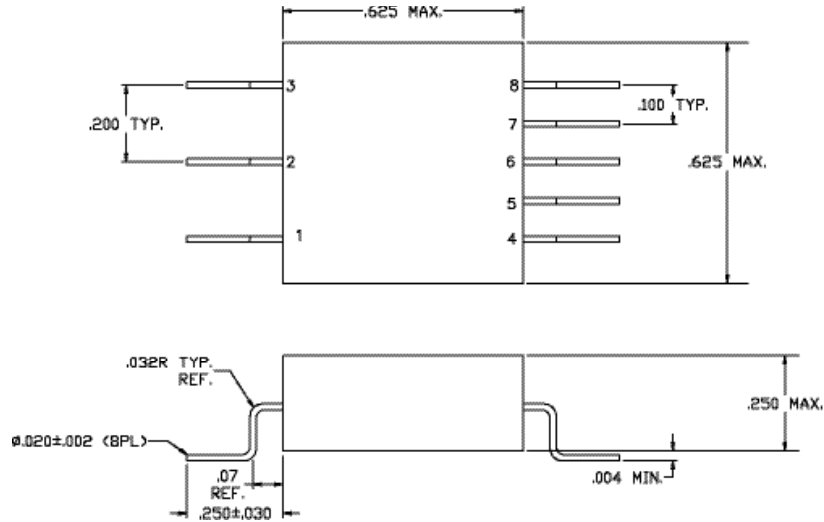
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## Mechanical

## Schematic

### SMQ1553-70



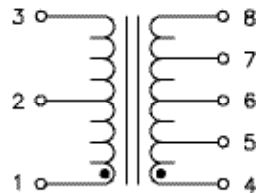
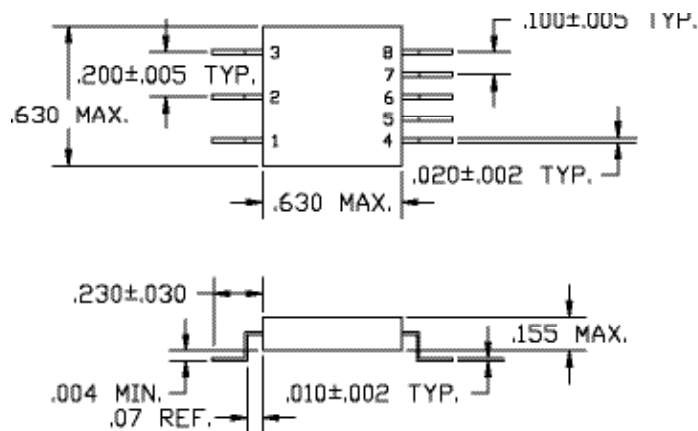
#### Notes:

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4. MSL – 3
5. Tape & Reel Size – 300

## Mechanical

## Schematic

### GL1553-71



#### Notes:

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4. MSL – 3
5. Tape & Reel Size – 350

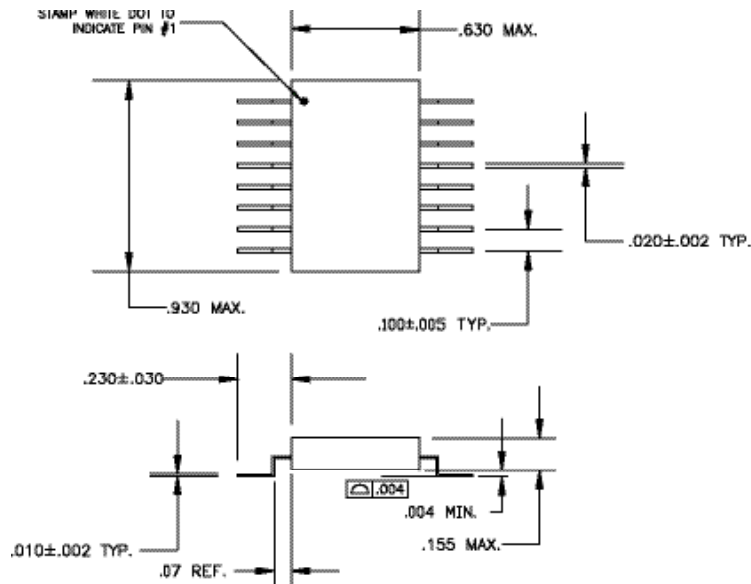
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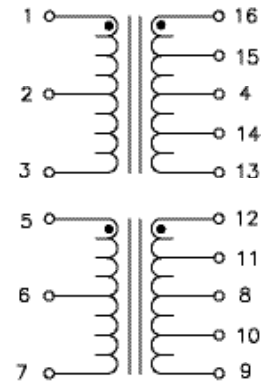
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## Mechanical

DGL1553-71



## Schematic

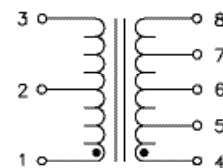
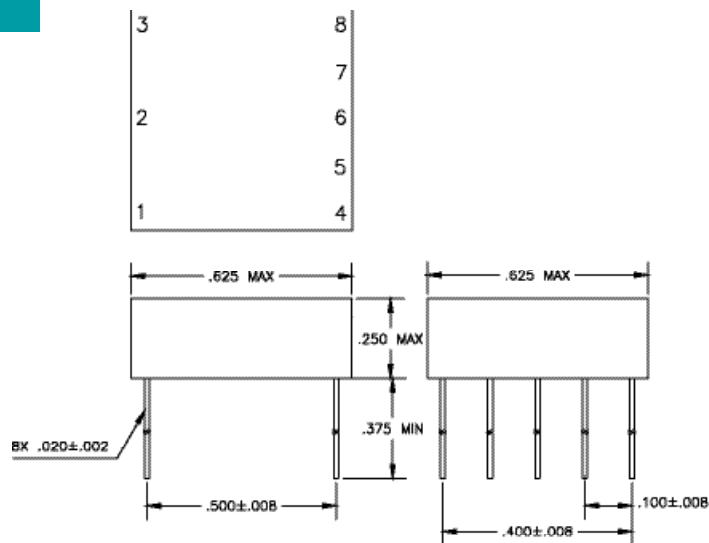


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4. MSL - 3
5. Tape & Reel Size - 300

## Mechanical

TQ1553-71



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2. Tolerances: .xx = +.008
3. All specifications and dimensions are subject to change without notice.
4. MSL - 1
5. Tube - 20 pieces

## For More Information

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