

Through Hole Mount 1553 Single Transformers

Ruggedized



- ⊗ Single Transformer package
- ⊗ MIL-STD-1553 Applications
- ⊗ Low profile – 0.172"
- ⊗ Height Weight: ≤3.0 grams
- ⊗ Moisture Sensitivity Level: 1

Electrical Specifications @ 25 °C – Operating Temperature –5 °C to +130 °C

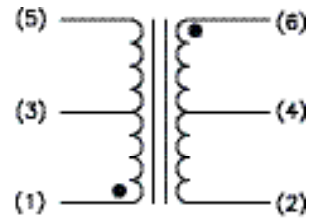
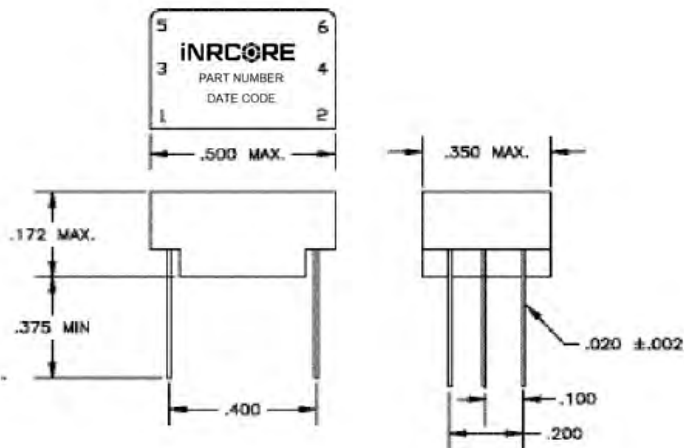
| Part Number | Terminals | Ratio (±3%) | DC Resistance (Ω Max) | Impedance (Ω Min) | Droop | Overshoot | CMR | Frequency Range (No Load) | IR @ 250Vdc (Min) | DWV |
|-------------|-----------|-------------|------------------------|-------------------|---------|-----------|----------|---------------------------|-------------------|----------|
| X-1584 | 1-5:6-2 | 1CT:1.79CT | (1-5) 0.9 (6-2) 2.5 | (6-2) 3,000 | 20% max | ± 1V max | 45dB min | 75kHz to 1MHz | 10K MΩ | 100 Vrms |
| X-1596 | 1-5:6-2 | 1CT:2.5CT | (1-5) 0.9 (6-2) 2.5 | (6-2) 3,000 | 20% max | ± 1V max | 45dB min | 75kHz to 1MHz | 10K MΩ | 100 Vrms |

Note: Add suffix NL to part to designate tin-plating for RoHS compliance (i.e. X-1584 would become X-1584NL)

Mechanical

Electrical Schematic

X-1584 / X-1596



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are: $\pm \frac{.010}{0,25}$

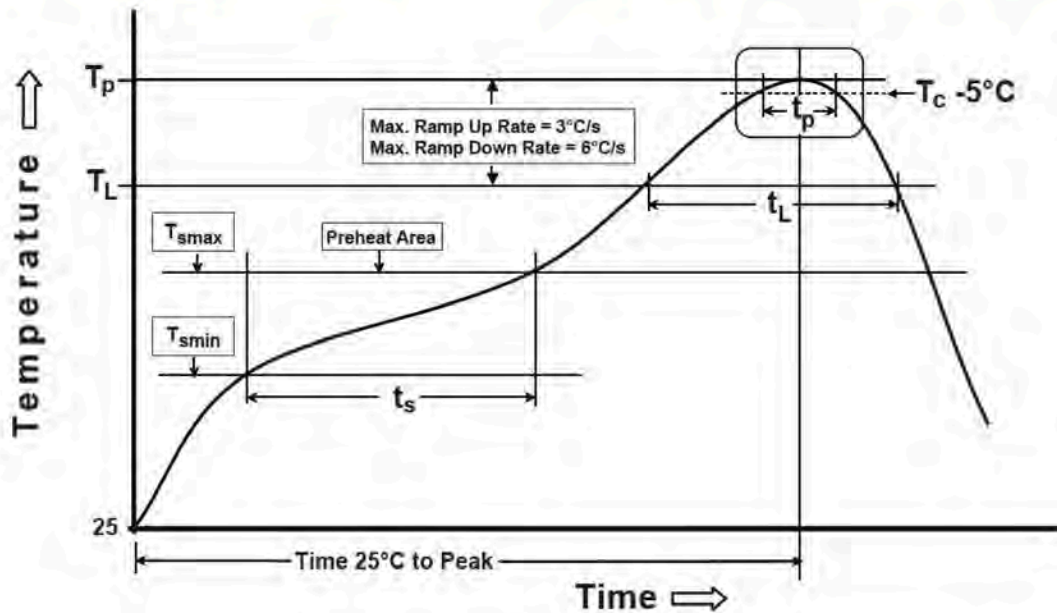


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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



| T_{SMIN} (°C) | T_{SMAX} (°C) | T_L (°C) | T_P (°C MAX) | t_s (s) | t_L (s) | t_p (s MAX) | Ramp-up rate (T_L to T_P) | Ramp-down rate (T_P to T_L) | Time 25°C to peak temperature (s MAX) |
|--------------------|--------------------|---------------|-------------------|--------------|--------------|------------------|------------------------------------|--------------------------------------|---|
| 100 | 150 | 183 | 235 | 60-120 | 60-150 | 20 | 3°C/s MAX | 6°C/s MAX | 360 |

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

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