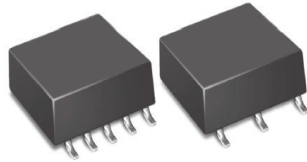


MIL-STD-1553 TRANSFORMERS

SMT Single Transformer
Ruggedized



- ⊗ Single transformer package
- ⊗ Low Profile: 0.185" height
- ⊗ Storage Temperature: -55°C to +130°C
- ⊗ Max Reflow Temperature: 235°C
- ⊗ Weight: ≤3.0 grams
- ⊗ Lead Finish: Sn63/Pb37
- ⊗ Moisture Sensitivity Level: 3

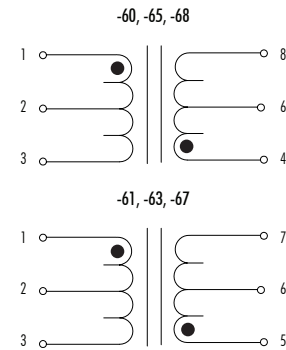
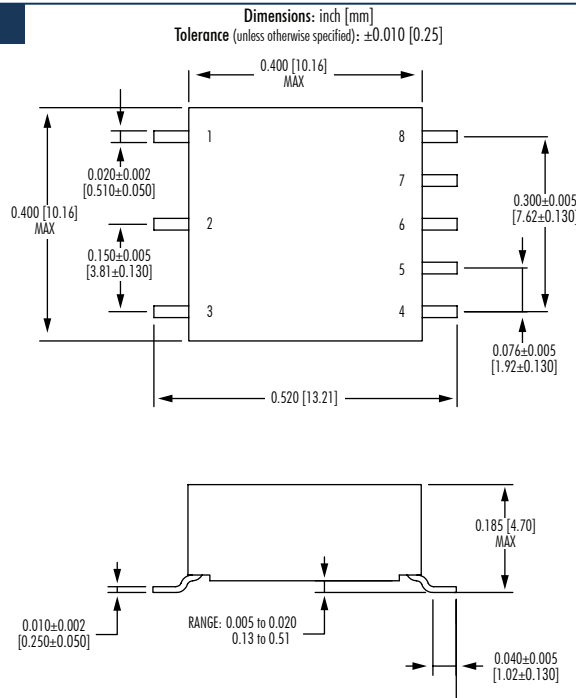
Electrical Specifications

| Part Number | Terminals | Ratio | DC Resistance MAX | Impedance MIN | Droop MAX | Overshoot MAX | CMR MIN | Frequency Range (No Load) | IR @ 250Vdc MIN | DWV |
|-------------|-----------|------------|-----------------------|---------------|-----------|---------------|---------|---------------------------|-----------------|--------|
| | | (±3%) | (W) | (W) | (%) | (V) | (dB) | | (MW) | (Vrms) |
| SMG1553-60 | 1-3:4-8 | 1.25CT:1CT | (1-3) 2.4, (4-8) 2.2 | (1-3) 4,000 | 20 | ±1 | 45 | 75kHz - 1MHz | 10,000 | 100 |
| SMG1553-61 | 1-3:5-7 | 1.66CT:1CT | (1-3) 2.4, (5-7) 1.5 | (1-3) 4,000 | 20 | ±1 | 45 | 75kHz - 1MHz | 10,000 | 100 |
| SMG1553-65 | 1-3:4-8 | 1CT:2.50CT | (1-3) 1.0, (4-8) 2.6 | (4-8) 4,000 | 20 | ±1 | 45 | 75kHz - 1MHz | 10,000 | 100 |
| SMG1553-66 | 1-3:5-7 | 1CT:1.79CT | (1-3) 1.3, (5-7) 2.6 | (5-7) 4,000 | 20 | ±1 | 45 | 75kHz - 1MHz | 10,000 | 100 |
| SMG1553-67 | 1-3:5-7 | 1CT:2.70CT | (1-3) 0.50, (5-7) 2.5 | (5-7) 4,000 | 20 | ±1 | 45 | 75kHz - 1MHz | 10,000 | 100 |
| SMG1553-68 | 1-3:4-8 | 1CT:3.75CT | (1-3) 0.40, (4-8) 2.5 | (4-8) 4,000 | 20 | ±1 | 45 | 75kHz - 1MHz | 10,000 | 100 |

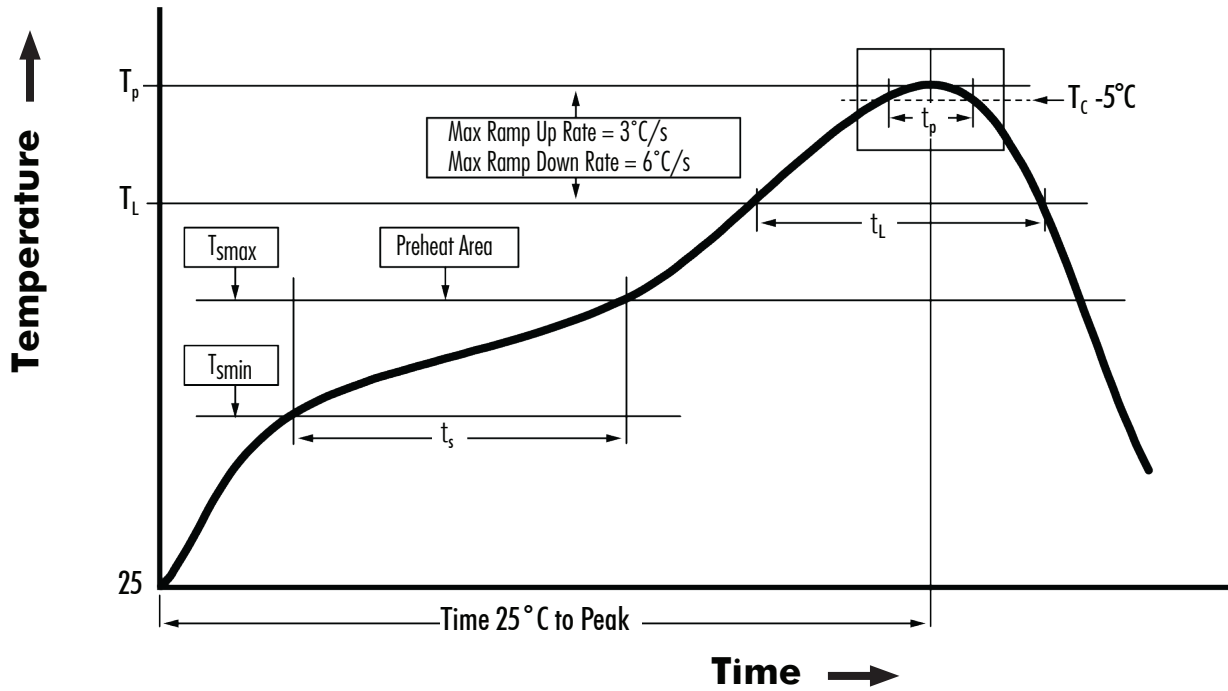
Mechanicals

Electrical Schematics

SMG1553-6X



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 number of reflow cycles not to exceed 2.

