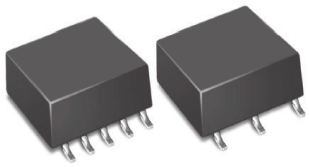
MIL-STD-1553 TRANSFORMERS

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
- Moisture Sensitivity Level: 3

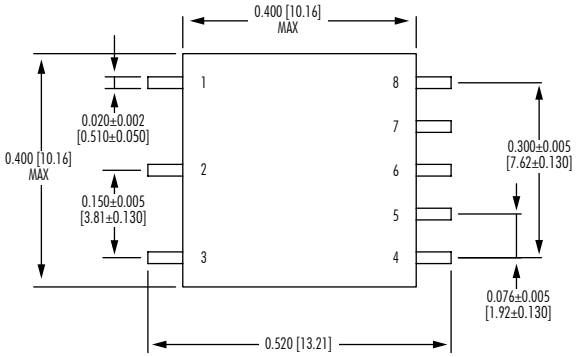
Electrical Specifications

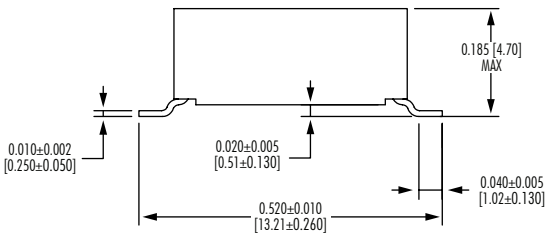
Part Number	Terminals	Ratio (±3%)	DC Resistance MAX (W)	Impedance MIN (W)	Droop MAX (%)	Overshoot MAX (V)	CMR MIN (dB)	Frequency Range (No Load)	IR @ 250Vdc MIN (MW)	DWV (Vrms)
SMG1553-60	1-3:4-8	1.25CT:1CT	(1-3) 2.4, (4-8) 2.2	(1-3) 4,000	20	±1	45	75kHz - 1MHz	10,000	100
SMG1553-61	1-3:5-7	1.66CT:1CT	(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

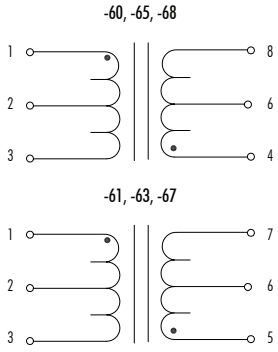
SMG1553-6X

Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



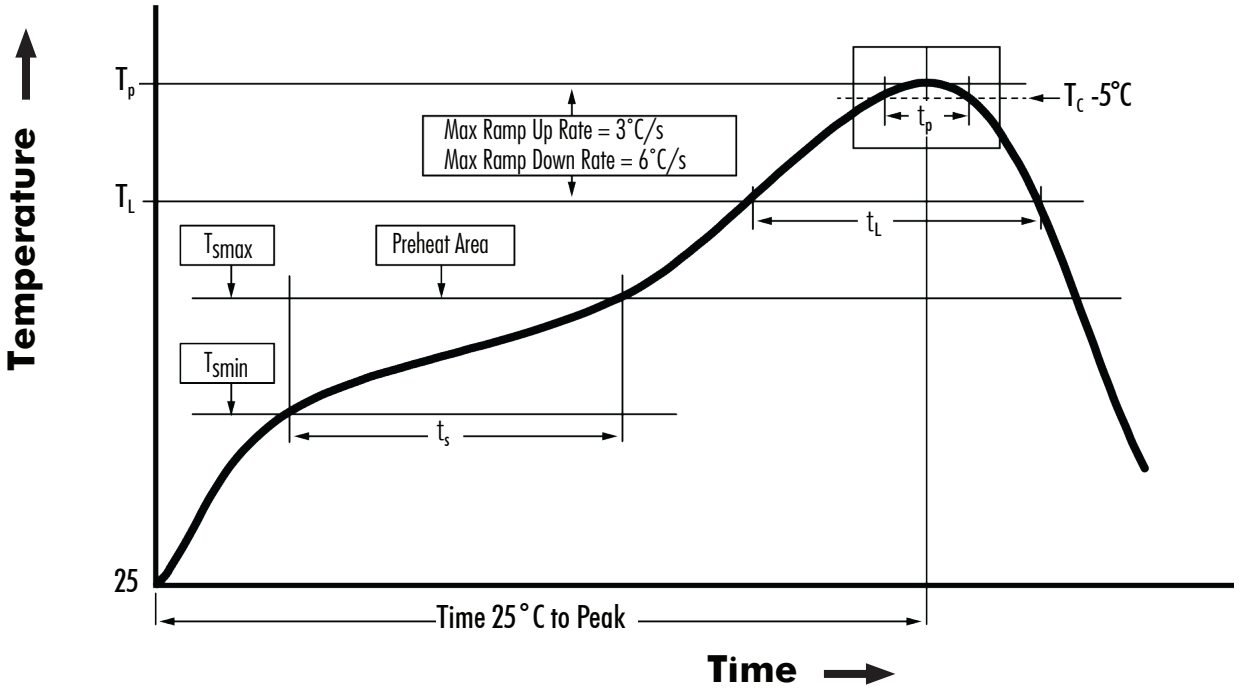


Electrical Schematics



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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	225	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

iNRCORE, LLC
311 Sinclair Road, Bristol, PA 19007-6812 USA
Tel: +1.215.781.6400 Fax: +1.215.781.6430
www.iNRCORE.com

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