

MIL-STD-1553 TRANSFORMERS

Dual Ratio Single Transformer
Ruggedized



- ⊗ Single transformer package
- ⊗ Dual Ratio
- ⊗ MIL-STD-1553 3.3V Applications
- ⊗ Low Profile: 0.250" height
- ⊗ Operating & Storage Temperature: -55°C to +125°C
- ⊗ Max Reflow Temperature: 235°C
- ⊗ Weight: ≤ 5.0 grams MAX
- ⊗ Moisture Sensitivity Level: 1

Electrical Specifications @ 25°C

Part Number	Terminals	Ratio	DC Resistance MAX	Impedance MIN	Droop MAX	Overshoot MAX	CMR MIN	Frequency Range (No Load)	IR @ 250Vdc MIN	DWV
		(±3%)	(Ω)	(Ω)	(%)	(V)	(dB)		(MΩ)	(Vrms)
SMQ1553-72	1-3:4-8 1-3:5-7	1CT:3.75CT 1CT:2.70CT	(1-3) 0.30 (4-8) 3.50	(4-8) 4,000	20	±1	45	75kHz - 1MHz	10K	100

NOTES:

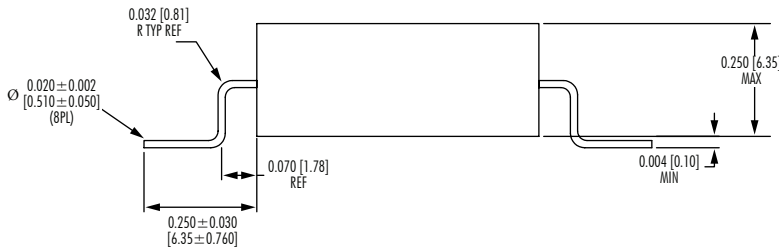
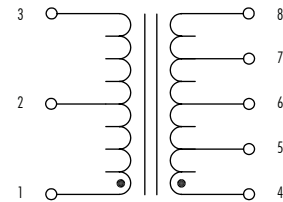
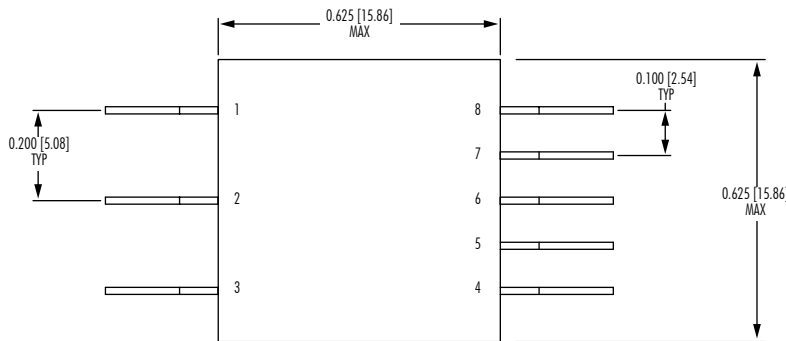
1. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. SMQ1553-72T

Mechanicals

Electrical Schematics

SMQ1553-72

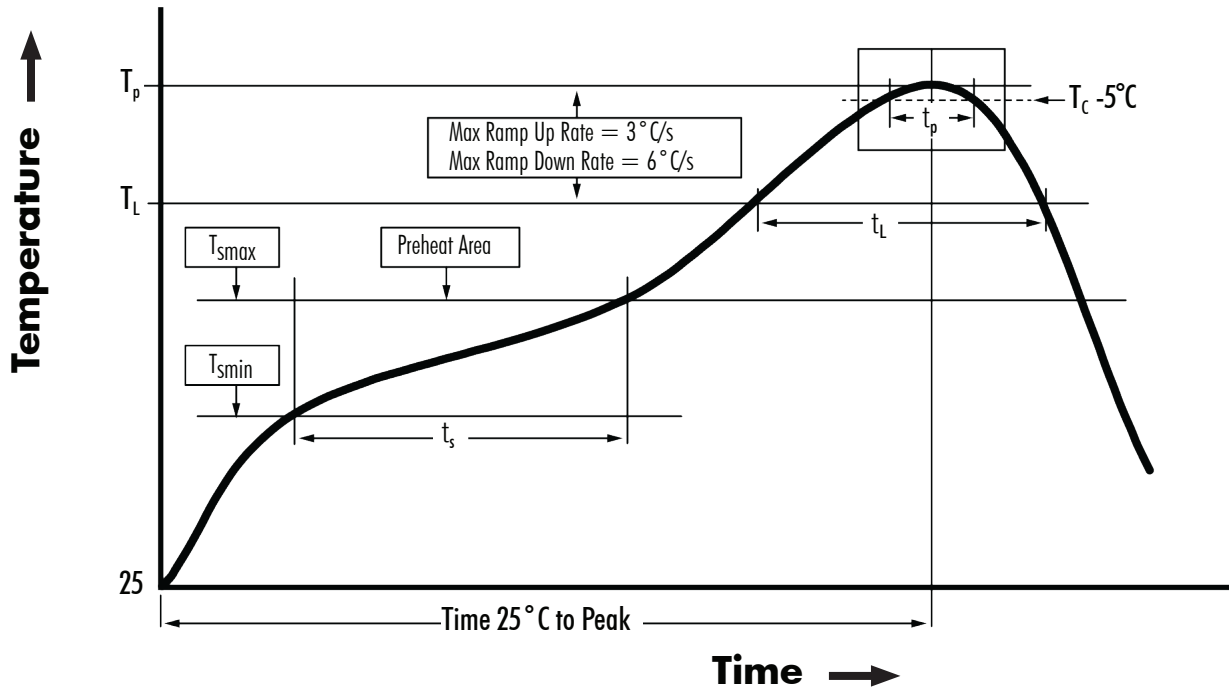
Dimensions: inch [mm]
Tolerance (unless otherwise specified): ±0.010 [0.25]



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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.



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