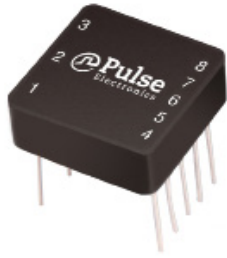


MIL-STD-1553 Transformers

Low profile 3.3V Pulse Transformers.
Ruggedized



- Dual ratio in a single transformer package (see Schematic)
- Storage Temperature: -55 °C to +125 °C
- Weight: ≤5.0 grams
- Applicable specifications
 - n MIL-STD-1553B
 - n MIL-STD-202
 - n MIL-PRF-21038
 - n ISO 9001
- Maximum Reflow Temperature for SMT parts: 235 deg C.
- Moisture Sensitivity Level : 1
- Moisture Sensitivity Level : 3

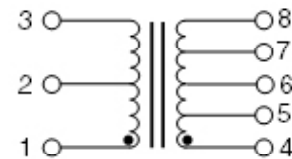
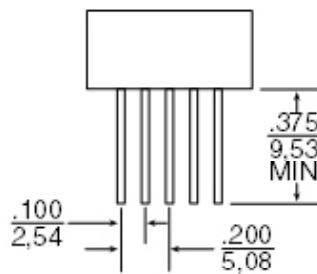
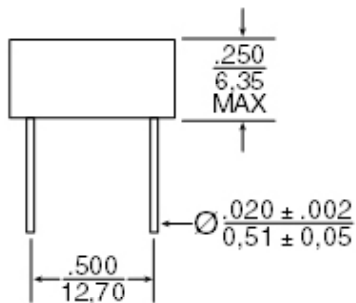
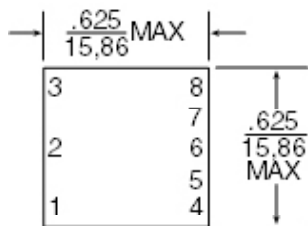
Electrical Specifications @ 25°C- Operating Temperature : -55°C to +125°C

Part Number	Terminals	Ratio (±3%)	DC Resistance (Ω MAX)	Impedance (Ω MIN)	Drop	Overshoot	CMR	Frequency Range (No Load)	IR @ 250Vdc (MIN)	DWV
Q1553-70	1-3:4-8 1-3:5-7	1.0CT:3.0CT 1.0CT:2.15CT	1-3 = 0.35 4-8 = 3.50	4-8 4000	20% MAX	±1V MIN	45db MIN	75kHz to 1MHz	10KMΩ	100 Vrms
SMQ1553-70	1-3:4-8 1-3:5-7	1CT:3CT 1CT:2.15CT	(1-3) .35 (4-8) 3.5	4-8 4000	20% max	±1V MAX	45dB MIN	75kHz to 1MHz	10KMΩ	100 Vrms
GL1553-71	1-3:4-8 1-3:5-7	1CT:3.54CT 1CT:2.50CT	(1-3) 0.35 (4-8) 3.5	4-8 4000	20% max	±1V MAX	45dB MIN	75kHz to 1MHz	10KMΩ	100 Vrms
DGL1553-71	1-3:1613/5-7:12-9 1-3:15-14/5-7:11-10	1CT:3.54CT 1CT:2.5CT	(1-3),(5-7) 0.35 (16-13),(12-9)3.5	16-13&12-9 4000	20% max	±1V MAX	45dB MIN	75kHz to 1MHz	10KMΩ	100 Vrms
TQ1553-71	1-3:4-8 1-3:5-7	1CT:3.54CT 1CT:2.5CT	(1-3) 0.35 (4-8) 3.5	4-8 4000	20% max	±1V MAX	45dB MIN	75kHz to 1MHz	10KMΩ	100 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. Pan/Tube Size= 1.
6. Weight.....4.08gm

MIL-STD-1553 Transformers

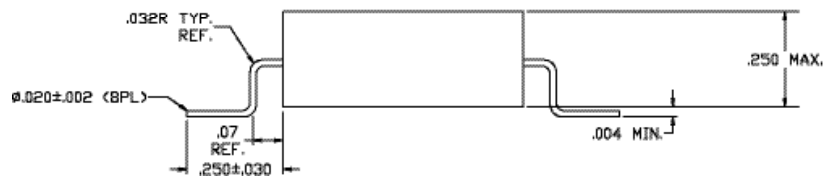
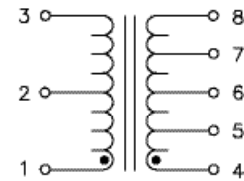
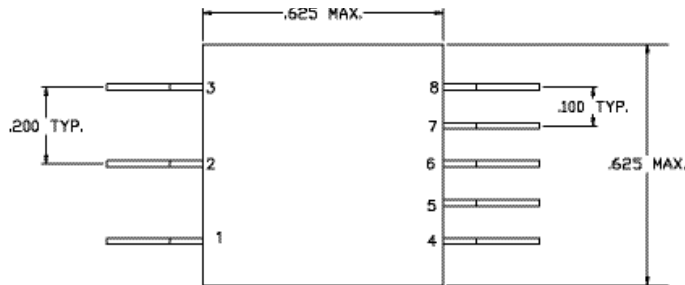
Low profile 3.3V Pulse Transformers.
Ruggedized



Mechanical

Schematic

SMQ1553-70



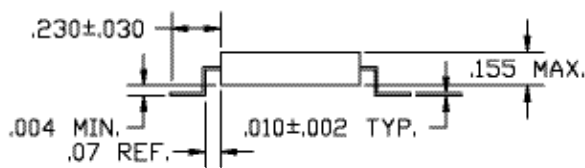
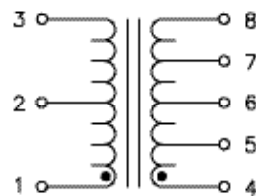
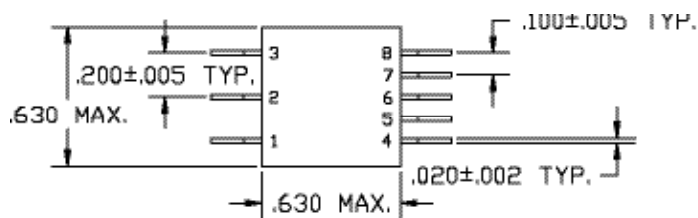
Notes:

1. All dimensions are in inches.
2. Tolerances: .xx = +.008
3. All specifications and dimensions are subject to change without notice.
4. MSL - 3
5. Tape & Reel Size - 300
6. Weight: 6.8gm

Mechanical

Schematic

GL1553-71



Notes:

1. All dimensions are in inches.
2. Tolerances: .xx = +.008
3. All specifications and dimensions are subject to change without notice.
4. MSL - 3
5. Tape & Reel Size - 350.

MIL-STD-1553 Transformers

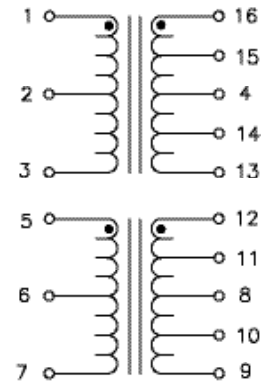
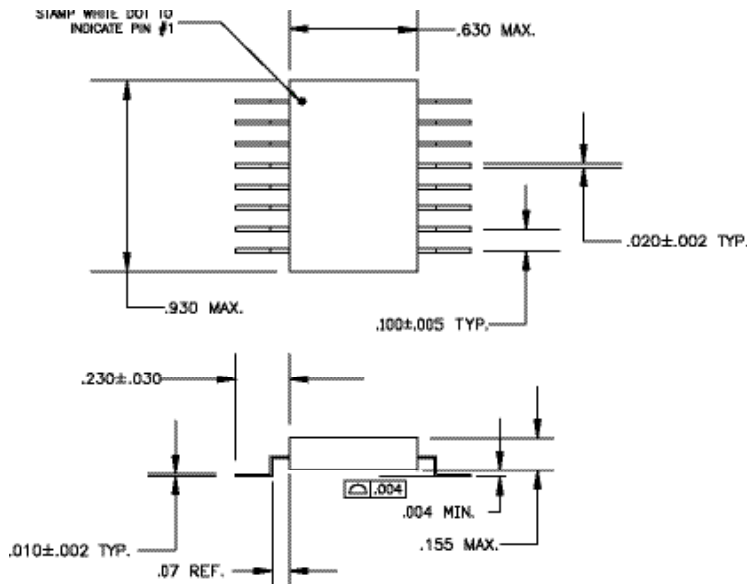
Low profile 3.3V Pulse Transformers.
Ruggedized



Mechanical

Schematic

DGL1553-71



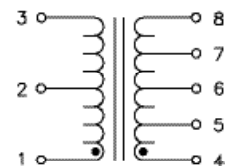
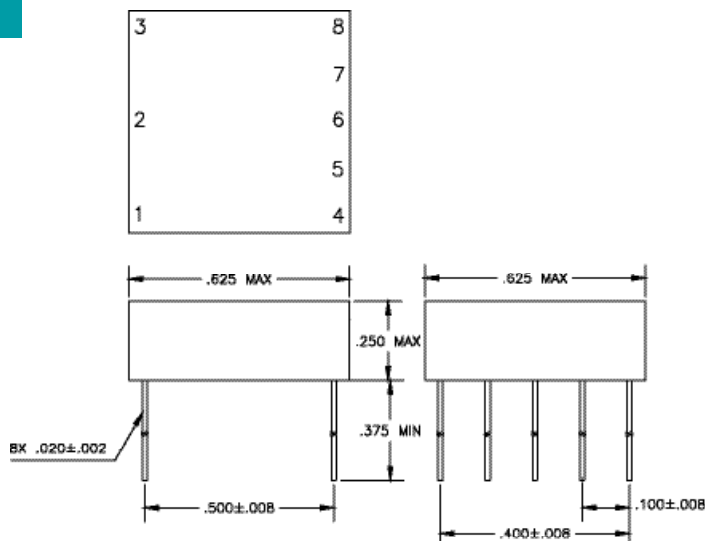
Notes:

1. All dimensions are in inches.
2. Tolerances: .xx = +.008
3. All specifications and dimensions are subject to change without notice.
4. MSL - 3
5. Tape & Reel Size - 300
6. Weight: 5.049gm

Mechanical

Schematic

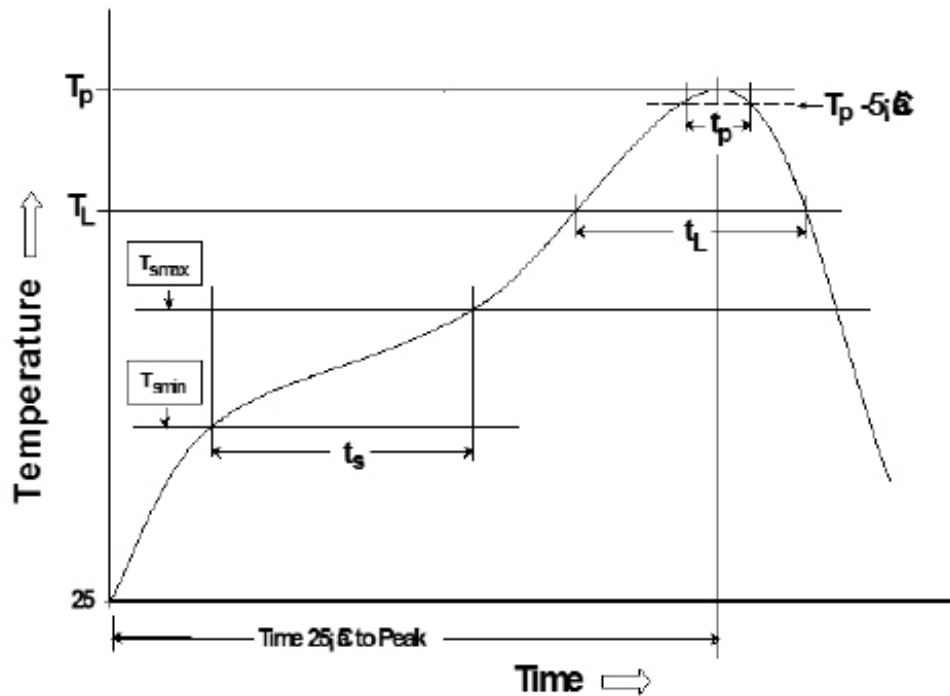
TQ1553-71



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
6. Weight: 5.27gm

Transceiver 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:

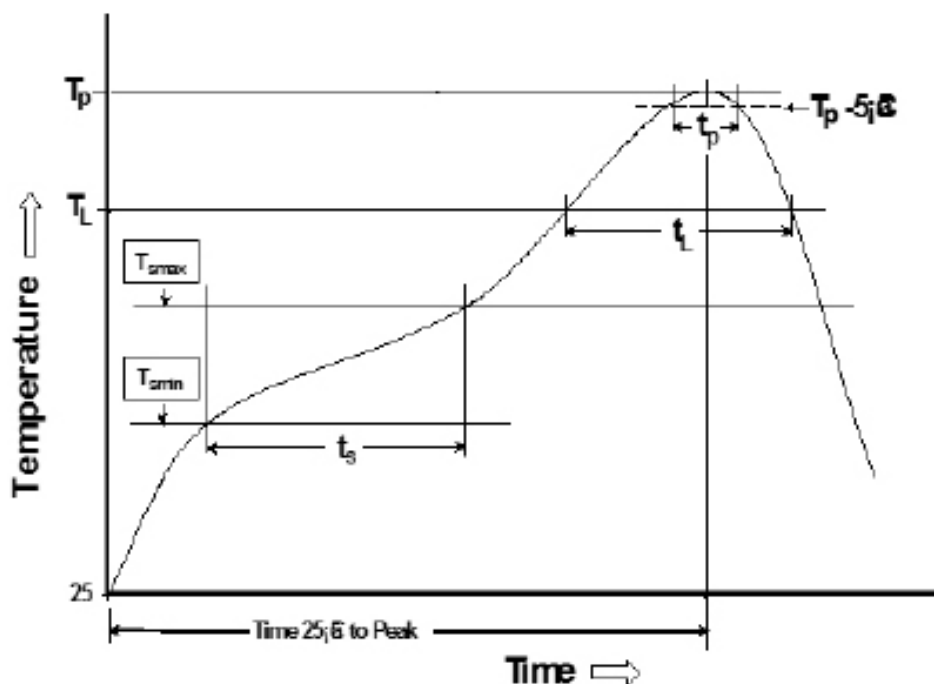
1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

MIL-STD-1553 Transformers

Low profile 3.3V Pulse Transformers.
Ruggedized



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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