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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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MIL-STD-1553 Transformers

Operating Temp.

0° to 70°C

-40° to +85°C

-55° to +125°C

Value Series (COTS) THT non-QPL Interface Transformers

Prefix C

N

TQ

Summary Performance Specifications



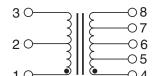
Military & Aerospace Specialty Components

These non-QPL interface transformers are built and tested in ISO 9001 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges including 0° to +70°C, -40° to +85°C, or -55° to +125° C.

- Dual ratio, single interface (see schematic)
- Through-the-board package
- MSL: 1
- For use in MIL-STD-1553 applications
- Standard height: 0.250 in.
- Performance to MIL-PRF-21038 requirements

Schematic

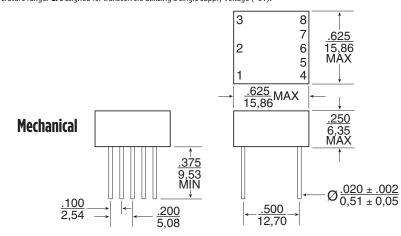
- Built in ISO 9001 facility
- Applicable specifications:
 - MIL-STD-1553B
 - MIL-STD-202
 - MIL-PRF-21038
 - ISO 9001



Impedance	(see table below)
Droop	□ 20%
Overshoot	31V MAX
Common Mode Rejection (CMR)	□ 45dB
Frequency Range (no load)	75kHz to 1MHz
Operating Temperature Range	(see table above)
Weight	☐ 5 grams
Insulation Resistance (MIN)	10K MΩ @ 250Vdc
Dielectric Withstanding Voltage	100Vrms

Characteristics							
Part Number	Termimals	Ratio (33%)	RDC (Ω MAX)	$\textbf{Impedance} \ (\Omega \ \text{MIN})$			
(X)1553-1 ¹	1-3 : 4-8	1CT:1CT	1-3 = 3.0	(1-3)			
	1-3 : 5-7	1CT:.707CT	4-8 = 3.0	4,000			
(X)1553-2	1-3 : 4-8	1.4CT:1CT	1-3 = 3.5	(1-3)			
	1-3 : 5-7	2CT:1CT	4-8 = 3.0	7,200			
(X)1553-3	1-3 : 4-8	1.25CT:1CT	1-3 = 3.2	(1-3)			
	1-3 : 5-7	1.66CT:1CT	4-8 = 3.0	4,000			
(X)1553-5 ²	1-3 : 4-8	1CT:2.12CT	1-3 = 1.0	(4-8)			
	1-3 : 5-7	1CT:1.5CT	4-8 = 3.5	4,000			
(X)1553-45 ²	1-3 : 4-8	1CT:2.5CT	1-3 = 1.0	(4-8)			
	1-3 : 5-7	1CT:1.79CT	4-8 = 3.5	4,000			

NOTE: 1. Refer to prefix table (above) to select temperature range. 2. Designed for transceivers utilizing a single supply voltage (+5V).

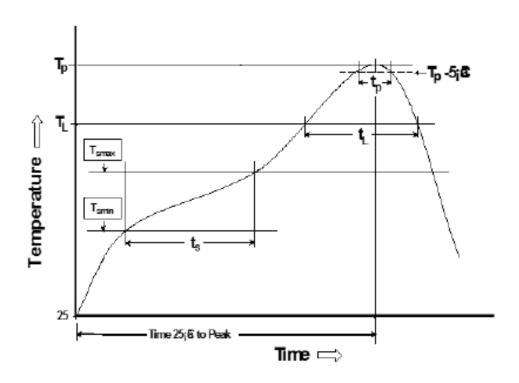


Notes:

- 1. All dimensions: in inches.
- 2. Tolerances: .xx = +.008
- 3. All specifications and dimensions are subject to change without notice.



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.

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