MIL-STD-1553 Transformers

Low Profile SMT Dual <u>non-QPL</u> Interface Transformers





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 $+70^{\circ}$ C, -40° to $+85^{\circ}$ C, or -55° to $+125^{\circ}$ C.

Operating Temperature	Flat Pack Prefix	Gull Wing Prefix	
0° to 70°C	DFLC	DGLC	
-40° to +85°C	DFLN	DGLN	
-55° to +125°C	DFL	DGL	

33 to 1123 C	DIL	DGL		
Summary Performance Specifications				
Impedance	ee table below)			
Droop		□ 20%		
Overshoot		±1V MAX		
Common Mode Rejectio	n (CMR)	□ 45dB		
Frequency Range (no loa	ıd)	75kHz to 1MHz		
Operating Temperature	Range (s	ee table above)		
Weight		☐ 5 grams		
Insualtion Resistance (MI	N) 10	K MΩ @ 250Vdc		

- Dual ratio, dual interface (see schematic)
- Surface Mount, flat pack or gull wing package
- Moisture Sensitivity Level: 3
- **◯** For use in MIL-STD-1553 applications
- Representation Low profile, 0.155 inches height
- Performance to MIL-PRF-21038 requirements
- Built in ISO 9001 facility
- Applicable specifications:
 - n MIL-STD-1553B
 - n MIL-STD-202

Characteristics						
Part Number 1	Termimals	Ratio (±3%)	RDC (Ω MAX)	Impedance (Ω MIN)		
(XXXX)1553-1	1-3:16-13 / 5-7:12-9	1CT:1CT	1-3, 5-7 = 3.0	(1-3, 5-7)		
(\lambda\lambda\lambda)1555-1	1-3:15-14 / 5-7:11-10	1CT:.707CT	16-13, 12-9 = 3.0	4,000		
(XXXX)1553-2	1-3:16-13 / 5-7:12-9	1.4CT:1CT	1-3, 5-7 = 3.5	(1-3, 5-7)		
(XXXX)1333-2	1-3:15-14 / 5-7:11-10	2CT:1CT	16-13, 12-9 = 3.0	7,200		
(XXXX)1553-3	1-3:16-13 / 5-7:12-9	1.25CT:1CT	1-3, 5-7 = 3.2	(1-3, 5-7)		
(\\\\) 1333-3	1-3:15-14 / 5-7:11-10	1.66CT:1CT	16-13, 12-9 = 3.0	4,000		
(XXXX)1553-5 ²	1-3:16-13 / 5-7:12-9	1CT:2.12CT	1-3, 5-7 = 1.0	(16-13, 12-9)		
(XXXX)1333-3	1-3:15-14 / 5-7:11-10	1CT:1.5CT	16-13, 12-9 = 3.5	4,000		
(XXXX)1553-45 ²	1-3:16-13 / 5-7:12-9	1CT:2.5CT	1-3, 5-7 = 1.0	(16-13, 12-9)		
(۸۸۸۸)1333-43	1-3:15-14 / 5-7:11-10	1CT:1.79CT	16-13, 12-9 = 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).

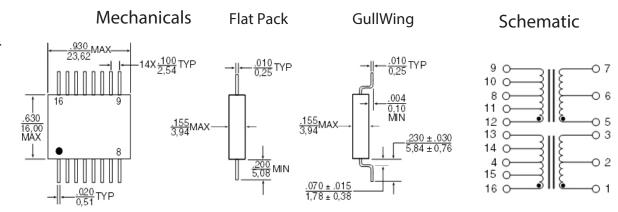
100Vrms

lotes:

1. All dimensions are in inches.

Dielectric Withstanding Voltage

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



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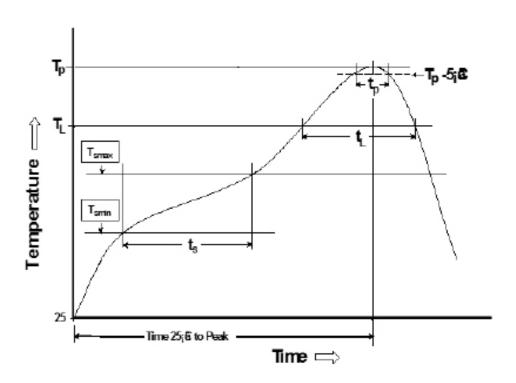
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Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



T _{SMIN} (°C)	T _{SMAX} (°C)	T _L (°C)	T _P (°C MAX)	t _s	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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