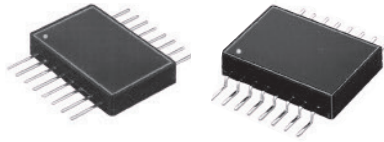


MIL-STD-1553 TRANSFORMERS

Low Profile Dual SMT Non-QPL Interface Transformers
Ruggedized



These Non-QPL interface transformers are built and tested in ISO 9001 approved facilities.

- ⊗ Dual ratio, dual interface
- ⊗ Surface Mount, flat pack or gull-wing package
- ⊗ Conform to all electrical and physical parameters of MIL-PRF-21038/27
- ⊗ Moisture Sensitivity Level: 3
- ⊗ Low profile, 0.155 inches height
- ⊗ Applicable Specifications:
 - ⊗ MIL-STD-1553B
 - ⊗ MIL-STD-202
 - ⊗ MIL-PRF-21038
 - ⊗ ISO 9001

Summary Performance Specifications

Drop	20% MAX			
Overshoot	±1V MAX			
Common Mode Rejection (CMR)	45dB MIN			
Frequency Range (no load)	75kHz - 1MHz			
Operating Temperature Range <i>(based on Prefix)</i>	Flat Pack		Gull-Wing	
	DFLC	DGLC		0°C to +70°C
	DFLN	DGLN		-40°C to +85°C
	DFL	DGL		-55°C to +125°C
Weight	5 grams MAX			
Insulation Resistance (MIN)	10K MΩ @ 250Vdc			
Dielectric Withstanding Voltage	100Vrms			

Characteristics

Part Number	Terminals	Ratio	RDC MAX	Impedance MIN
		(±3%)	(Ω)	(Ω)
(XXXX)1553-1	1-3:16-13 / 5-7:12-9 1-3:15-14 / 5-7:11-10	1CT:1CT 1CT:0.707CT	1-3, 5-7 = 3.0 16-13, 12-9 = 3.0	(1-3, 5-7) 4,000
(XXXX)1553-2	1-3:16-13 / 5-7:12-9 1-3:15-14 / 5-7:11-10	1.40CT:1CT 2CT:1CT	1-3, 5-7 = 3.5 16-13, 12-9 = 3.0	(1-3, 5-7) 7,200
(XXXX)1553-3	1-3:16-13 / 5-7:12-9 1-3:15-14 / 5-7:11-10	1.25CT:1CT 1.66CT:1CT	1-3, 5-7 = 3.2 16-13, 12-9 = 3.0	(1-3, 5-7) 4,000
(XXXX)1553-5*	1-3:16-13 / 5-7:12-9 1-3:15-14 / 5-7:11-10	1CT:2.12CT 1CT:1.50CT	1-3, 5-7 = 1.0 16-13, 12-9 = 3.5	(16-13, 12-9) 4,000
(XXXX)1553-45*	1-3:16-13 / 5-7:12-9 1-3:15-14 / 5-7:11-10	1CT:2.50CT 1CT:1.79CT	1-3, 5-7 = 1.0 16-13, 12-9 = 3.5	(16-13, 12-9) 4,000

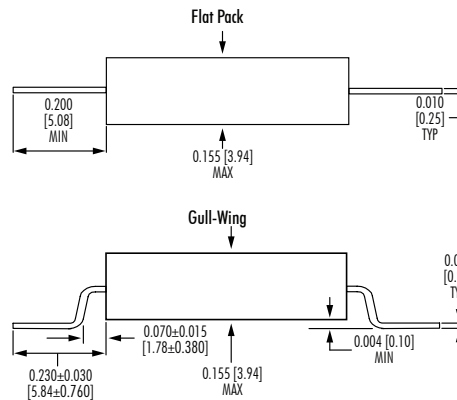
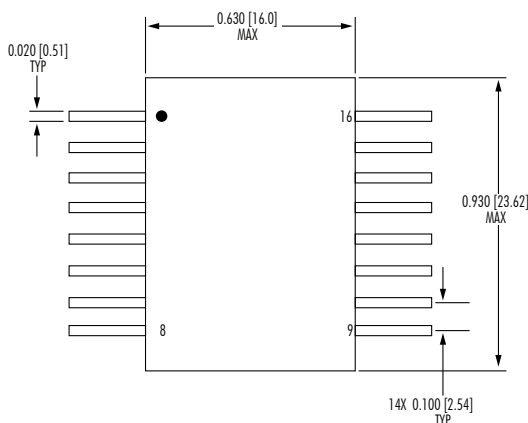
NOTES:

1. Refer to the Summary Performance Specifications Table above to select the prefix for your desired Operating Temperature Range. Replace (XXXX) from the part number in the table with the desired prefix: **DFLC, DFLN, DFL, DGLC, DGLN, DGL**.

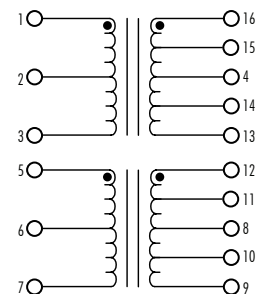
* Designed for transceivers utilizing a single supply voltage (+5V).

Mechanicals

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



Electrical Schematics



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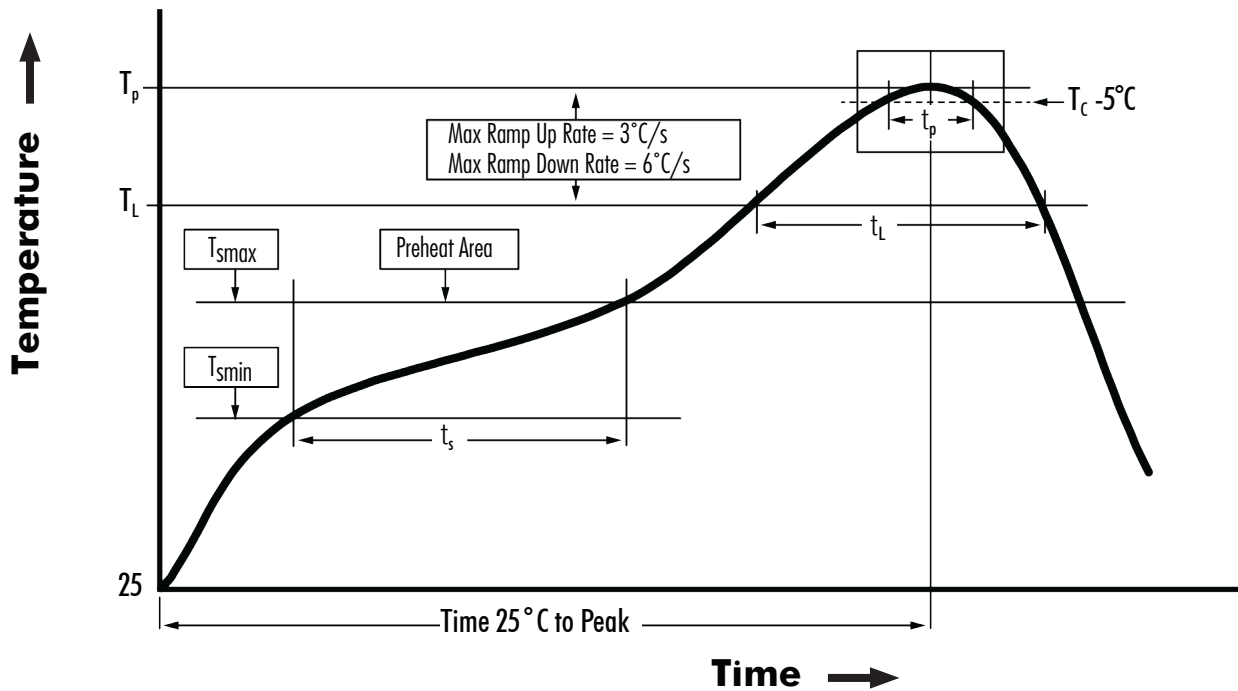
M229.D (11/21)

MIL-STD-1553 TRANSFORMERS

Low Profile Dual SMT Non-QPL Interface Transformers
Ruggedized



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



$T_{S\min}$ (°C)	$T_{S\max}$ (°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



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