

MIL-STD-1553 Data Bus Transformers

SITAL's line of low cost 1553 transformers offers non QPL transformers complying with MILPRF 21038/27E electrical specifications. Together with SITAL's 1553 FPGA core and discrete transceiver circuit they offer a full cost effective 1553 solution. The transformers are drop in replacement for standard through the board assembly transformers.

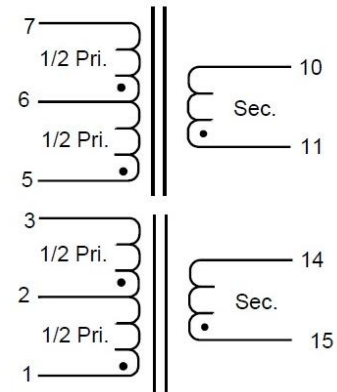
Features:

- Low Cost non QPL Transformer
- Through The Board Assembly
- Pin to Pin Drop In Replacement
- MILPRF 21038/27E Specifications



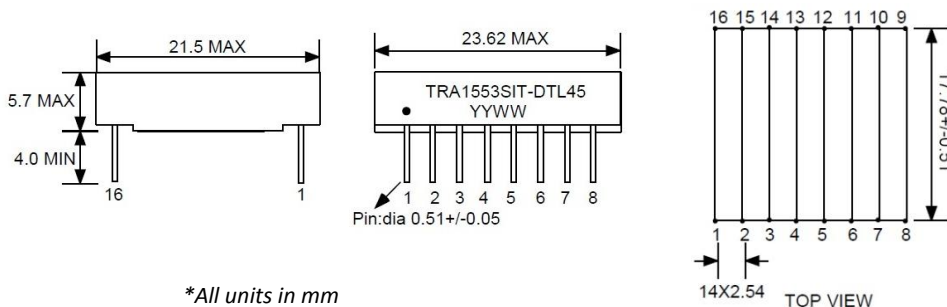
SITAL TRA1553SIT-DTL45 transformer

Electrical Scheme



Electrical Specifications

Parameter	Detail
Turns Ratio - (1,3) : (15,14) & (5,7) : (11,10)	1 : 1.79 ± 3%
Electrical Scheme	See Electrical Scheme
Impedance	1000 Ohm Min.
Droop	< 30%
Overshoot	< 1V
Pulse Width	2µs
Rise and Fall Times	150µs Typ.
Common Mode Rejection (CMR)	> 45 dB
DC Resistance @25°C	(1,3) & (5,7) 1Ω Max; (10,11) & (15,14) 2Ω Max
Frequency Range (no load)	75 kHz to 1MHz
Insulation Resistance	Min. 1000 MΩ @ 250 Vdc
Dielectric Withstanding Voltage	100 Vrms
Weight	< 10 gram
Operating Temperature Range	-40°C to +125°C
Ordering Part Number	TRA1553SIT-DTL45
<i>Specifications subject to change without notice</i>	



Mechanical Details



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