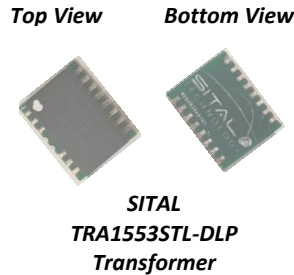


MIL-STD-1553 Data Bus Transformers

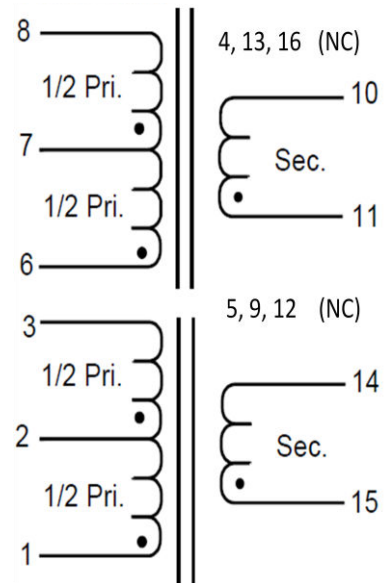
SITAL's line of low cost 1553 transformers offers non QPL transformers complying with MILPRF 21038/27E electrical specifications. Together with SITAL's 1553 FPGA core and discrete transceiver circuit they offer a full cost effective 1553 solution. The transformers are compatible to SOIC16 package assembly and can be used as drop in replacement transformers.

Features:

- Low Cost non QPL Transformer
- Dual Bus (A+B) Transformer
- Compact Size: 13.2 x 17.15 x 4.7 mm
- Surface Mount (SMT) Assembly
- Meet MIL-PRF-21038 & MIL-STD-202
- MSL: 3



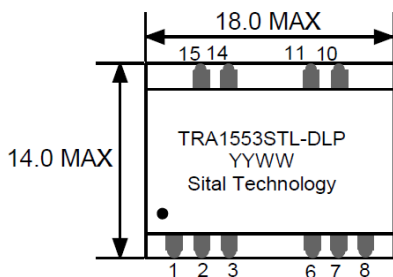
Electrical Scheme



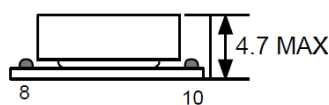
Electrical Specifications

Parameter	Detail
Turns Ratio - (1,3) : (15,14) & (6,8) : (11,10)	1 : 1.79 ± 3%
Electrical Scheme	See Electrical Scheme
Impedance	4000 Ohm Min.
Droop	< 20%
Overshoot	< ±1V
Pulse Width	2µs
Rise and Fall Times	150ns Typ.
Common Mode Rejection (CMR)	> 45 dB
DC Resistance @25°C	(1,3) & (6,8) 1Ω Max; (16,13) & (12,9) 3.5Ω Max
Frequency Range (no load)	75 kHz to 1MHz
Insulation Resistance	Min. 10,000 MΩ @ 250 Vdc
Dielectric Withstanding Voltage	100 Vrms
Weight	< 5 gram
Operating Temperature Range	-40°C to +125°C
Ordering Part Number	TRA1553STL-DLP
<i>THIS IS RoHS COMPLIANT PRODUCT</i>	

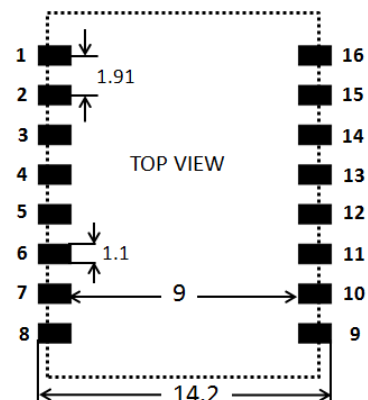
Mechanical Drawing



All Units: mm



Recommended PCB Layout



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