

MIL-STD-1553 Data Bus Transformers

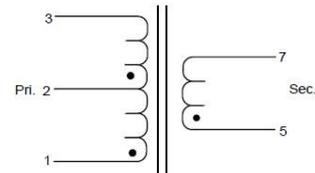
SITAL's line of low cost 1553 transformers offers non QPL transformers complying with MILPRF 21038/27E electrical specifications. Together with SITAL's 1553 FPGA core and discrete transceiver circuit they offer a full cost effective 1553 solution. The transformers are drop in replacement for standard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



SITAL TRA1553SIT-45 transformer

Features:

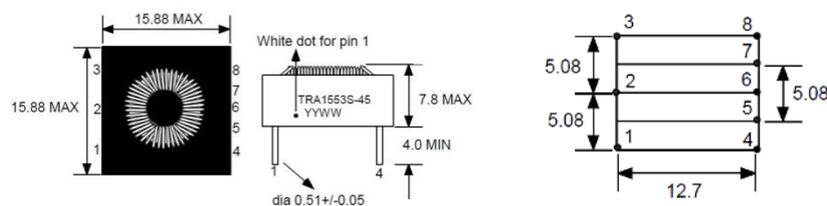
- Low Cost non QPL Transformer
- Through The Board Assembly
- Pin to Pin Drop In Replacement
- MILPRF 21038/27E Specifications



Electrical Scheme

Electrical Specifications

Parameter	Detail
Turns Ratio	(1,3) : (5,7) 1 : 1.79 ± 3%
Electrical Scheme	See Electrical Scheme
Impedance	Min. 1000 Ohm
Drop	< 20%
Overshoot	< 1V
Pulse Width	2µs
Rise and Fall Times	150ns Typ.
Common Mode Rejection (CMR)	> 45 dB
DC Resistance	(1,3) 1Ω Max (5,7) 1Ω Max @25°C
Frequency Range (no load)	75 kHz to 1MHz
Insulation Resistance	Min. 1000 MΩ @ 250 Vdc
Dielectric Withstanding Voltage	100 Vrms
Weight	< 5 gm
Operating Temperature Range	-40°C to +125°C
Ordering Part Number	TRA1553SIT-45
<i>Specifications subject to change without notice</i>	



*All units in mm

Mechanical Details



A leading provider of avionics interfaces and testing solutions

www.sitaltech.com | sales@sitaltech.com