

MIL-STD-1553B DATA BUS INTERFACE TRANSFORMERS

Introduction:

Compupower Private Limited, over the years has earned the recognition of Indian Defence industry for its capability to produce highly reliable Data Bus Couplers for MIL-STD-1553B applications. With this capability and knowledge, we have designed and developed Data Bus Interface Transformers to meet the requirements of MIL-STD-1553B Data Bus applications. We believe our line of Data Bus Couplers and Transformers to be the best in terms of performance, cost and reliability.

Applicable documents:

- MIL-STD-1553B
- MIL-STD-202
- MIL-T-21038D

Features:

- High Reliability
- 45dB Common Mode Rejection
- Low cost
- All Standard Voltages & Turns Ratios
- Fast Delivery

Specifications:

Input Impedance	See Table
Droop	≤20%
Overshoot	±1V max
Common Mode Rejection (CMR)	45dB min
Frequency rage (No Load)	75KHz to 1MHz
Insulation Resistance (Minimum)	1000MΩ @250Vdc
Dielectric withstanding voltage	200Vrms
Operating Temperature	-55 to +125°C
Operating Temperature	-55 to +125°C



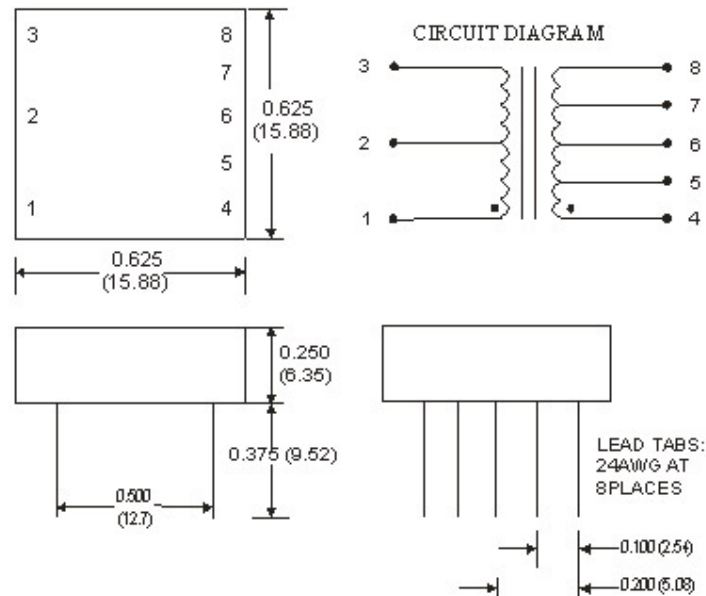
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DUAL RATIO THROUGH HOLE MOUNT PULSE TRANSFORMERS

Specifications Table:

MODEL No.	URNS RATIO ($\pm 3\%$)	TERMINALS	RDC (ohms) Max.		IMPEDANCE (ohms) Min.
CP 1553-01/ CP 1553-01L	1:1 1:0.707	1-3:4-8 1-3:5-7	1-3 4-8	3.0 3-0	(1-3) 4,000
CP 1553-02	1.4:1 2:1	1-3:4-8 1-3:5-7	1-3 4-8	3.5 3.0	(1-3) 7,200
CP 1553-03	1.25:1 1.66:1	1-3:4-8 1-3:5-7	1-3 4-8	3.0 3.0	(1-3) 4,000
CP 1553-05	2.12:1 1.5:1	4-8:1-3 5-7:1-3	1-3 4-8	2.0 3.5	(4-8) 4,000
CP 1553-45	2.5:1 1.79:1	4-8:1-3 5-7:1-3	1-3 4-8	1.5 3.8	(4-8) 4,000
CP 1553-45L	2.5:1 1.75:1	4-8:1-3 5-7:1-3	1-3 4-8	1.5 3.8	(4-8) 4,000

SCHEMATIC AND DIMENSIONS



- Notes: 1. Dimensions are in inch(mm)
 2. Unless otherwise specified, tolerance is ± 0.01 (± 0.25)
 3. Specifications subject to change without notice



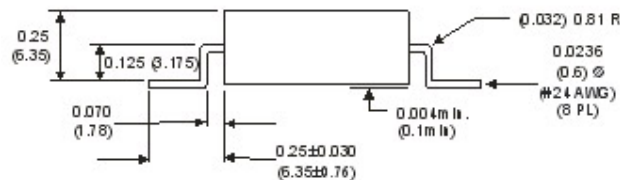
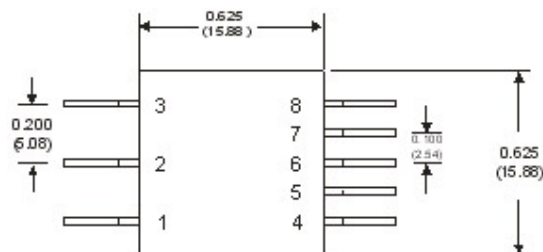
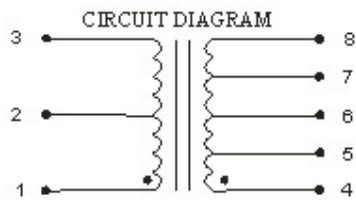
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DUAL RATIO SURFACE MOUNT PULSE TRANSFORMERS

Specifications Table:

MODEL No.	URNS RATIO($\pm 3\%$)	TERMINALS	RDC (ohms) Max.		IMPEDANCE (ohms) Min.
CS 1553-01	1:1 1:0.707	1-3:4-8 1-3:5-7	1-3 4-8	3.0 3.0	(1-3) 4,000
CS 1553-03	1.25:1 1.66:1	1-3:4-8 1-3:5-7	1-3 4-8	3.0 3.0	(1-3) 4,000
CS 1553-05	2.12:1 1.5:1	4-8:1-3 5-7:1-3	1-3 4-8	2.0 3.5	(4-8) 4,000
CS 1553-45	2.5:1 1.79:1	4-8:1-3 5-7:1-3	1-3 4-8	1.5 3.8	(4-8) 4,000
CS 1553-45L	2.5:1 1.75:1	4-8:1-3 5-7:1-3	1-3 4-8	1.5 3.8	(4-8) 4,000

SCHEMATIC AND DIMENSIONS



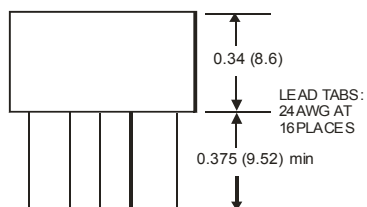
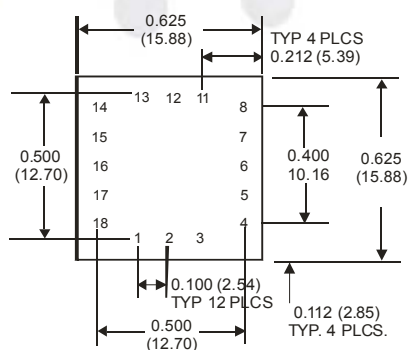
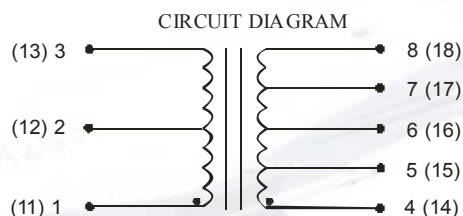
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DUAL STACKED THROUGH HOLE MOUNT PULSE TRANSFORMERS

Specifications Table:

MODEL No.	TURNS RATIO ($\pm 3\%$)	TERMINALS	RDC (ohms) Max.		IMPEDANCE (ohms) Min.
CP 1553-01T/ CP 1553-01TL	1:1 1:0.707	1-3(11-13):4-8(14-18) 1-3(11-13):5-7(15-17)	1-3(11-13) 4-8 (14-18)	3.0 3-0	1-3(11-13)4,000
CP 1553-03T	1.25:1 1.66:1	1-3(11-13):4-8(14-18) 1-3(11-13):5-7(15-17)	1-3(11-13) 4-8 (14-18)	3.0 3.0	1-3(11-13)4,000
CP 1553-05T	2.12:1 1.5:1	4-8(14-18):1-3(11-13) 5-7(15-17):1-3(11-13)	1-3(11-13) 4-8 (14-18)	2.0 3.5	4-8 (14-18)4,000
CP 1553-45T	2.5:1 1.79:1	4-8(14-18):1-3(11-13) 5-7(15-17):1-3(11-13)	1-3(11-13) 4-8 (14-18)	1.5 3.8	4-8 (14-18)4,000

SCHEMATIC AND DIMENSIONS



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