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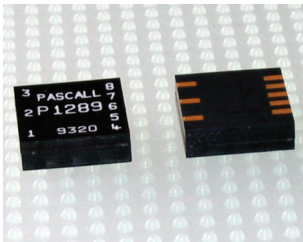
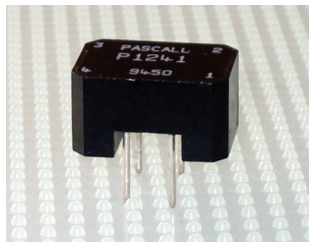
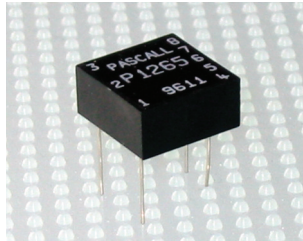
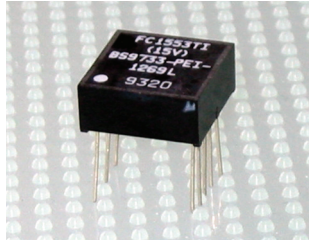
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## MIL-STD 1553 SINGLE & DUAL DATA BUS TRANSFORMERS



- 3Kohms minimum impedance at -55°C**
- Can be tested in accordance with BS9000**
- Available in both leaded and surface mount packages**
- Extended range giving wide choice of turns ratios**
- Upper operating temperature limit to +125°C**

The Pascall P1200 Series of Data Bus Transformers is designed to satisfy the requirements of MIL-STD-1553A/B (DEF. STAN. 00-18 (Part 2) /1) and may be used in either the bus coupling or isolation configurations.

The Transformers are compatible with currently available transceivers and integrated terminals, meeting all the electrical requirements of Manchester II serial bi-phase data transmission including MACAIR specifications. They are also designed to meet the requirements of MIL-T-21038 Grades 5 & 7 / Class S / Life X.



## MIL-STD 1553 SINGLE & DUAL DATA BUS TRANSFORMERS

### SINGLE

MIL-STD 1553 TRANSFORMERS					
Part No.		1,2 : 3,4	Centre Tap	Housing	Minimum impedance between pins 1-3
1-00152		1.41 : 1	N	D	3,000
1-00195		1.41 : 1	N	B	3,000

MIL-STD 1553 TRANSFORMERS					
Part No.	1,3 : 5,7	1,3 : 4,8	Centre Tap	Housing	Minimum impedance between pins 1-3
1-00130	1.41 : 1	1.0 : 1.0	Y	A	3,000
1-00171	1.41 : 1	—	Y	B	3,000
1-00273	—	1.0 : 1	Y	C	3,000
1-00769	1.66 : 1	1.2 : 1	Y	A	3,000
1-00168	2.0 : 1	1.4 : 1	Y	A	3,000
1-02822	—	2.0 : 1	Y	A	3,000
1-01028	0.66 : 1	0.46 : 1	Y	A	3,000
1-03842	—	0.4 : 1	Y	C	3,000
1-04405	1.41 : 1	1.0 : 1	Y	E	3,000
1-04817	2.0 : 1	1.41 : 1	Y	E	3,000
1-07860	—	0.56 : 1	Y	E	3,000
1-06198	—	0.56 : 1	Y	E	3,000

Other models & custom versions available.

### DUAL

MIL-STD 1553 TRANSFORMERS							
Part No.	Turns Ratio				Centre Tap	Housing	Impedance Ohms minimum
	1-3 : 15-14	1-3 : 16-13	5-7 : 11-10	5-7 : 12-9			
1-10956	1 : 0.707	1 : 1	1 : 0.707	1.1	Y	F	3,000 (1-3, 5-7)
1-10955	2 : 1	1.41 : 1	2 : 1	1.41 : 1	Y	F	3,000 (1-3, 5-7)
1-11269	1.66 : 1	1.25 : 1	1.66 : 1	1.25 : 1	Y	F	3,000 (1-3, 5-7)
1-11268	1 : 1.5	1 : 2.12	1 : 1.5	1 : 2.12	Y	F	3,000 (16-13, 12-9)
1-11270	1 : 1.75	1 : 2.5	1 : 1.75	1 : 2.5	Y	F	3,000 (16-13, 12-9)
1-10954	1 : 1.79	1 : 2.5	1 : 1.79	1 : 2.5	Y	F	3,000 (16-13, 12-9)

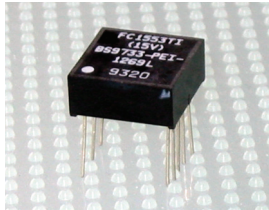
OPERATING CONDITIONS				
Parameter	Symbol	Min	Max	Unit
Frequency Range	f	75	1000	KHz
Operating Temperature	T <sub>amb</sub>	-55	+125	°C
Storage Temperature	T <sub>st</sub>	-55	+150	°C

ELECTRICAL CHARACTERISTICS					
Parameter	Test Conditions	Min	Typ	Max	Unit
Open Circuit Primary Impedance	Overall Conditions T <sub>amb</sub> = +25 °C f = 75 kHz	3	8		Kohms
Droop			10	15	%
Common Mode Rejection Ratio		45	50		dB
Overshoot and Ringing			±0.5	±1.0	Volts
Inter Winding Resistance	Test Voltage = 500 V	50			Mohms
Turns Ratio Tolerance				±3	%
Peak Working Voltage				50	Volts
*Isolation Resistor Tolerance				±2	%
*Isolation Resistor Rating	T <sub>amb</sub> = 70 °C			1.0	Watts

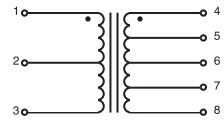
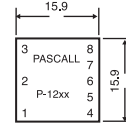
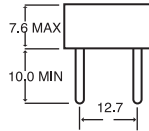
\* Where fitted

**MIL-STD 1553 SINGLE & DUAL DATA BUS TRANSFORMERS**

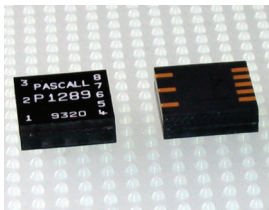
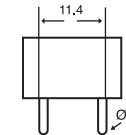
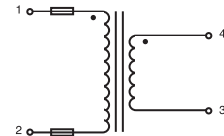
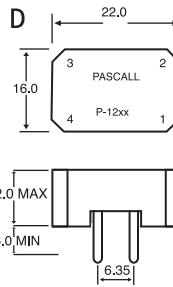
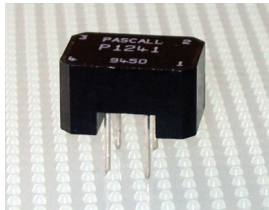
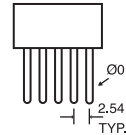
**SINGLE**



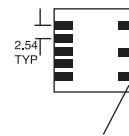
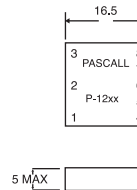
A / B / C



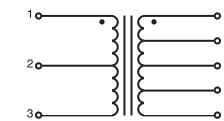
- STYLE A AS SHOWN
- STYLE B LESS PINS 2, 4, 6, 8
- STYLE C LESS PINS 5, 7



E

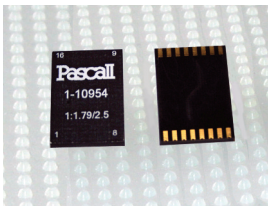


DIMENSIONS IN mm TOLERANCES ± 0.3 UNLESS OTHERWISE STATED

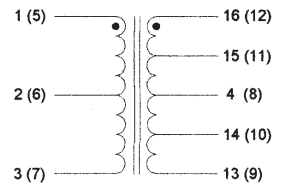
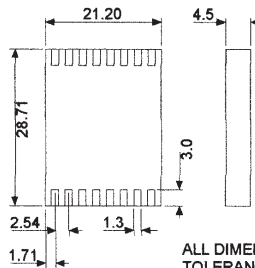


30 x 1.25 TYP IN 8 PLACES

**DUAL**



F



ALL DIMENSIONS IN mm TOLERANCES, 1 DEC PLACE ± 0.15 2 DEC PLACE ± 0.07



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