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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

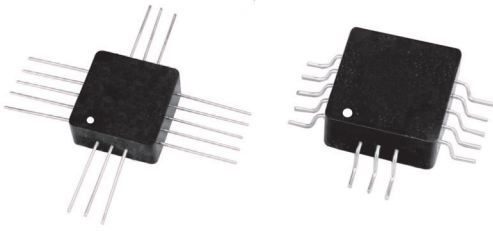
Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



MIL-STD-1553 Transformers

Stacked Dual SMT non-QPL Interface Transformers



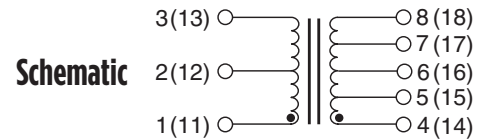
These non-QPL interface transformers are built and tested in ISO 9001 approved facilities. They conform to all electrical and physical parameters of MIL-PRF-21038/27. Choose one of three operating temperature ranges including 0° to +70°C, -40° to +85°C, or -55° to +125°C.

Operating Temperature	Flat Pack Prefix	Gull Wing Prefix
0° to 70°C	SFQC	SGQC
-40° to +85°C	SFQN	SGQN
-55° to +125°C	SFQ	SGQ

Summary Performance Specifications	
Impedance	(see table below)
Droop	20%
Overshoot	±1V MAX
Common Mode Rejection (CMR)	45dB
Frequency Range (no load)	75kHz to 1MHz
Operating Temperature Range	(see table above)
Weight	5 grams
Insulation Resistance (MIN)	10K MΩ @ 250Vdc
Dielectric Withstanding Voltage	100Vrms

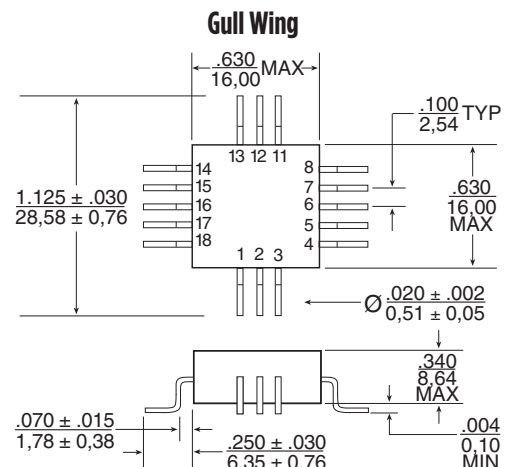
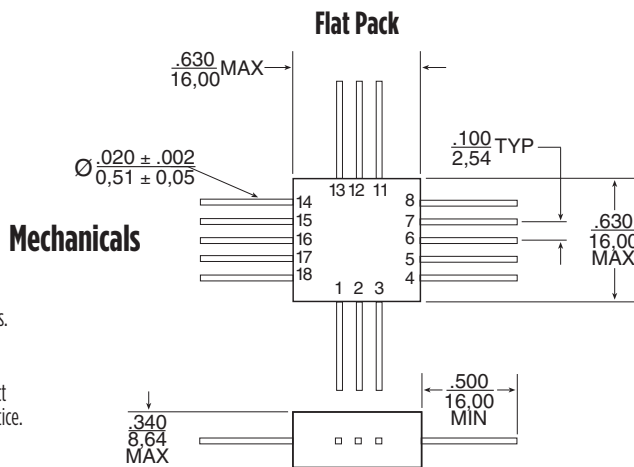
- Dual ratio, dual interface (see schematic)
- Surface Mount package
- MSL: 3
- For use in MIL-STD-1553 applications
- Vertically stacked for minimum XY area
- Performance to MIL-PRF-21038 requirements
- Built in ISO 9001 facility
- Applicable specifications:

- MIL-STD-1553B
- MIL-STD-202
- MIL-PRF-21038
- ISO 9001



Characteristics				
Part Number ¹	Terminals	Ratio (±3%)	RDC (Ω MAX)	Impedance (Ω MIN)
(XXXX)1553-1	1-3 : 4-8 (11-13 : 14-18) 1-3 : 5-7 (11-13 : 15-17)	1CT:1CT 1CT:.707CT	1-3 (11-13) = 3.5 4-8 (14-18) = 3.0	(1-3 & 11-13) 4,000
(XXXX)1553-2	1-3 : 4-8 (11-13 : 14-18) 1-3 : 5-7 (11-13 : 15-17)	1.4CT:1CT 2CT:1CT	1-3 (11-13) = 3.0 4-8 (14-18) = 3.0	(1-3 & 11-13) 7,200
(XXXX)1553-3	1-3 : 4-8 (11-13 : 14-18) 1-3 : 5-7 (11-13 : 15-17)	1.25CT:1CT 1.66CT:1CT	1-3 (11-13) = 3.2 4-8 (14-18) = 3.0	(1-3 & 11-13) 4,000
(XXXX)1553-5 ²	1-3 : 4-8 (11-13 : 14-18) 1-3 : 5-7 (11-13 : 15-17)	1CT:2.12CT 1CT:1.5CT	1-3 (11-13) = 1.0 4-8 (14-18) = 3.5	(4-8 & 14-18) 4,000
(XXXX)1553-45 ²	1-3 : 4-8 (11-13 : 14-18) 1-3 : 5-7 (11-13 : 15-17)	1CT:2.5CT 1CT:1.79CT	1-3 (11-13) = 1.0 4-8 (14-18) = 3.5	(4-8 & 14-18) 4,000

NOTE: 1. Refer to prefix table (above) to select temperature range. **2.** Designed for transceivers utilizing a single supply voltage (+5V).



Notes:
 1. All dimensions: in inches.
 2. Tolerances: .xx = +.008
 3. All specifications and dimensions are subject to change without notice.

MIL-PRF-21038/27 Inspection, Sampling, Testing

Table 1 — Group A Inspection					
Level “C”***		Level “M”		Level “T”	
Tests	Sampling Plan	Tests	Sampling Plan	Tests	Sampling Plan
N/A	N/A	Electrical Characteristics per MIL-PRF-21038/27	Sample per Table 3	Thermal Shock	100%
N/A	N/A	Visual and Mechanical Inspection	Sample per Table 3	Winding Continuity	100%
N/A	N/A	N/A	N/A	Electrical Characteristics per MIL-PRF-21038/27	100%
N/A	N/A	N/A	N/A	Impedance	Sample per Table 3
N/A	N/A	N/A	N/A	Visual and Mechanical Inspection	Sample per Table 3

Table 2 — Group B Inspection					
Level “C”***		Level “M”		Level “T”	
Tests	Sampling Plan	Tests	Sampling Plan	Tests	Sampling Plan
N/A	N/A	Dielectric Withstanding Voltage	Sample per Table 3	Dielectric Withstanding Voltage	Sample per Table 3
N/A	N/A	Insulation Resistance	Sample per Table 3	Insulation Resistance	Sample per Table 3

Table 3 — Sampling Plans for Group A and Group B Inspections		
Lot Size	Group A, Group II Inspections	Group B
1 to 5	All	All
6 to 13	All	5
14 to 50	13	5
51 to 90	13	7
91 to 150	13	11
151 to 280	20	13
281 to 500	29	16
501 to 1200	34	19
1,201 to 3,200	42	23
3,201 to 10,000	50	29

****NOTE:** Parts ordered to Level C are certified to comply with MIL-PRF-21038 Level C, however testing is performed per manufacturer’s internal requirements and sampling rates.

For More Information

Pulse North America Headquarters
Two Pearl Buck Court
Bristol, PA 19007
U.S.A.

Pulse Europe
Zeppelinstrasse 15
71083 Herrenberg
Germany

Pulse China Headquarters
B402, Shenzhen Academy of
Aerospace Technology Bldg.
10th Kejian Road
High-Tech Zone
Nanshan District
Shenzen, PR China 518057
Tel: 86 755 33966678
Fax: 86 755 33966700

Pulse North China
Room 2704/2705
Super Ocean Finance Ctr.
2067 Yan An Road West
Shanghai 200336
China
Tel: 86 21 62787060
Fax: 86 2162786973

Pulse South Asia
135 Joo Seng Road
#03-02
PM Industrial Bldg.
Singapore 368363

Pulse North Asia
3F No. 198, Zhongyuan Road
Zhongli City
Taoyuan County (32068)
Taiwan

Tel: 215 781 6400
Fax: 215 781 6403

Tel: 49 7032 7806 0
Fax: 49 7032 7806 12

Tel: 65 6287 8998
Fax: 65 6287 8998

Tel: 886 3 4356768
Fax: 886 3 4356823

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