



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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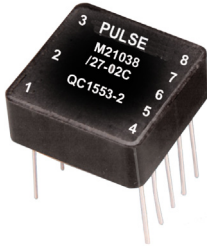
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MIL-STD-1553 Transformers

Dual Ratio THT QPL Pulse Transformers

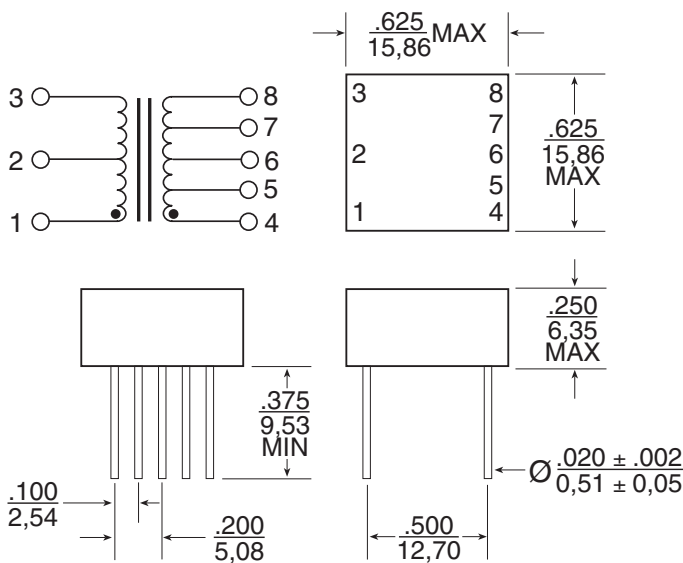


- Qualified for use in QPL MIL-STD-1553 applications
- Dual ratio in a single package (see Schematic)
- MSL: 1
- Designed, built, and tested to MIL-PRF-21038 Levels* C, M, and T
- Two packages available: Package A without standoffs, and Package G with standoffs
- Built in ISO 9001 facility
- Applicable specifications
 - MIL-STD-1553B
 - MIL-STD-202
 - MIL-PRF-21038
 - ISO 9001

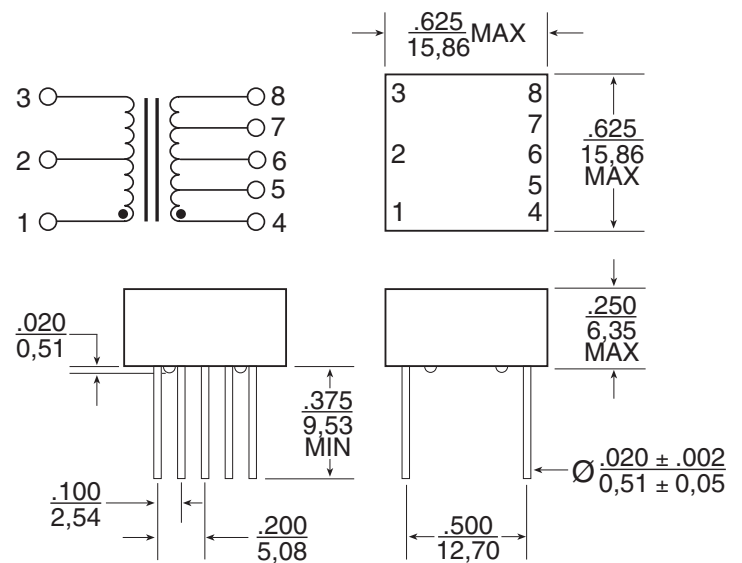
- * **Level C** - for high reliability commercial/industrial applications
Level M - for general purpose military applications
Level T - for high reliability critical military applications

Summary Performance Specifications	
Impedance	(see next page)
Droop	20%
Overshoot	±1V MAX
Common Mode Rejection (CMR)	45dB
Frequency Range (no load)	75kHz to 1MHz
Operating Temperature Range	-55°C to 130°C
Weight	5 grams
Insulation Resistance (MIN)	10K MΩ @ 250Vdc
Dielectric Withstanding Voltage	100Vrms

Package A



Package G

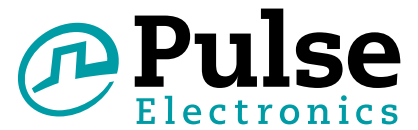


Notes:

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

MIL-STD-1553 Transformers

Dual Ratio THT QPL Pulse Transformers



Characteristics									
Line	Level	Military Designation No.	Pulse Part No.	Package	Height (in. MAX)	Terminals	Ratio (±3%)	RDC (Ω MAX)	Impedance (Ω MIN)
1	C	M21038/27-01C	QC1553-1	A	.250	1-3:4-8	1CT:1CT	1-3 3.0	(1-3)
2	M	M21038/27-01	Q1553-1			1-3:5-7	1CT:.707CT	4-8 3.0	4,000
3	T	M21038/27-01T	QT1553-1						
4	C	M21038/27-02C	QC1553-2	A	.250	1-3:4-8	1.4CT:1CT	1-3 3.5	(1-3)
5	M	M21038/27-02	Q1553-2			1-3:5-7	2CT:1CT	4-8 3.0	7,200
6	T	M21038/27-02T	QT1553-2						
7	C	M21038/27-03C	QC1553-3	A	.250	1-3:4-8	1.25CT:1CT	1-3 3.2	(1-3)
8	M	M21038/27-03	Q1553-3			1-3:5-7	1.66CT:1CT	4-8 3.0	4,000
9	T	M21038/27-03T	QT1553-3						
10	C	M21038/27-10C	QC1553-5*	A	.250	1-3:4-8	1CT:2.12CT	1-3 1.0	(4-8)
11	M	M21038/27-10	Q1553-5*			1-3:5-7	1CT:1.5CT	4-8 3.5	4,000
12	T	M21038/27-10T	QT1553-5*						
13	C	M21038/27-21C	QC1553-81	G	.275	1-3:4-8	1CT:1CT	1-3 3.0	(1-3)
14	M	M21038/27-21	Q1553-81			1-3:5-7	1CT:.707CT	4-8 3.0	4,000
15	T	M21038/27-21T	QT1553-81						
16	C	M21038/27-22C	QC1553-82	G	.275	1-3:4-8	1.4CT:1CT	1-3 3.5	(1-3)
17	M	M21038/27-22	Q1553-82			1-3:5-7	2CT:1CT	4-8 3.0	7,200
18	T	M21038/27-22T	QT1553-82						
19	C	M21038/27-23C	QC1553-83	G	.275	1-3:4-8	1.25CT:1CT	1-3 3.2	(1-3)
20	M	M21038/27-23	Q1553-83			1-3:5-7	1.66CT:1CT	4-8 3.0	4,000
21	T	M21038/27-23T	QT1553-83						
22	C	M21038/27-24C	QC1553-84*	G	.275	1-3:4-8	1CT:2.12CT	1-3 1.0	(4-8)
23	M	M21038/27-24	Q1553-84*			1-3:5-7	1CT:1.5CT	4-8 3.5	4,000
24	T	M21038/27-24T	QT1553-84*						
25	C	M21038/27-25C	QC1553-85*	G	.275	1-3:4-8	1CT:2.50CT	1-3 1.0	(4-8)
26	M	M21038/27-25	Q1553-85*			1-3:5-7	1CT:1.79CT	4-8 3.5	4,000
27	T	M21038/27-25T	QT1553-85*						
28	C	M21038/27-26C	QC1553-45*	A	.250	1-3:4-8	1CT:2.50CT	1-3 1.0	(4-8)
29	M	M21038/27-26	Q1553-45*			1-3:5-7	1CT:1.79CT	4-8 3.5	4,000
30	T	M21038/27-26T	QT1553-45*						

*NOTE: Designed for transceivers utilizing a single supply voltage (+5V).

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.

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