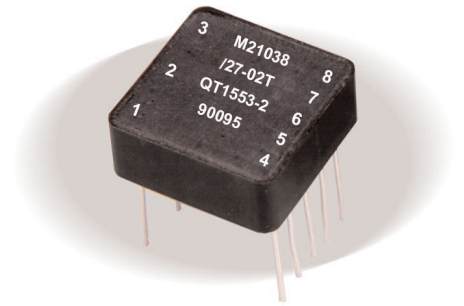


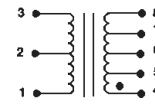


Dual ratio through-the-board QPL pulse transformers

- qualified for use in QPL MIL-STD-1553 applications
- dual ratio in a single package, see schematic
- designed, built, and tested to MIL-PRF-21038 Levels C, M, and T*
- two packages available: Package A without standoffs, Package G with standoffs
- built in ISO 9002 facility



SCHEMATIC AND DIMENSIONS

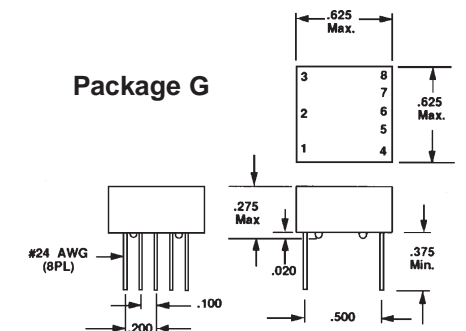
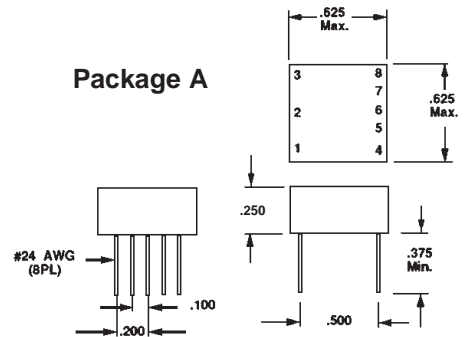


APPLICABLE SPECIFICATIONS

- MIL-STD-1553B
- MIL-STD-202
- MIL-T-10727
- MIL-PRF-21038/27*
- ISO 9002

SUMMARY PERFORMANCE SPECIFICATIONS

Impedance.....	see table, next page
Droop.....	≤ 20%
Overshoot.....	± 1V max
Common mode rejection (CMR).....	≥ 45 dB
Frequency range (no load).....	75 kHz to 1MHz
Operating temperature range.....	-55°C to 130°C
Weight.....	≤ 5 grams
Insulation resistance (min).....	10K megohms @ 250 Vdc
Dielectric withstanding voltage.....	100 Vrms



*MIL-PRF-21038E (8 July 1998) supersedes MIL-T-21038D (11 May 1979) and establishes three product levels for low power pulse transformers:

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

Notes:

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



CHARACTERISTICS

■ dual ratio ■ through the board

LINE	LEVEL	MILITARY DESIGNATION NUMBER	TECHNITROL PART NO.	PACKAGE	HEIGHT (in.) MAX	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
1	C	M21038/27-01C	QC1553-1	A	.250	1-3:4-8 1-3:5-7	1CT:1CT 1CT:707CT	1-3 3.0 4-8 3.0	(1-3) 4000
2	M	M21038/27-01	Q1553-1						
3	T	M21038/27-01T	QT1553-1						
4	C	M21038/27-02C	QC1553-2	A QPL COTS	.250	1-3:4-8 1-3:5-7	1.4CT:1CT 2CT:1CT	1-3 3.5 4-8 3.0	(1-3) 7,200
5	M	M21038/27-02	Q1553-2						
6	T	M21038/27-02T	QT 1553-2						
7	C	M21038/27-03C	QC1553-3	A QPL COTS	.250	1-3:4-8 1-3:5-7	1.25CT:1CT 1.66CT:1CT	1-3 3.2 4-8 3.0	(1-3) 4000
8	M	M21038/27-03	Q1553-3						
9	T	M21038/27-03T	QT 1553-3						
10	C	M21038/27-10C	QC1553-5*	A	.250	1-3:4-8 1-3:5-7	1CT:2.12CT 1CT:1.5CT	1.3 1.0 4-8 3.5	(4-8) 4,000
11	M	M21038/27-10	Q1553-5*						
12	T	M21038/27-10T	QT 1553-5*						
13	C	M21038/27-21C	QC1553-81	G	.275	1-3:4-8 1-3:5-7	1CT:1CT 1CT:707CT	1-3 3.0 4-8 3.0	(1-3) 4,000
14	M	M21038/27-21	Q1553-81						
15	T	M21038/27-21T	QT 1553-81						
16	C	M21038/27-22C	QC1553-82	G	.275	1-3:4-8 1-3:5-7	1.4CT:1CT 2CT:1CT	1-3 3.5 4-8 3.0	(1-3) 7,200
17	M	M21038/27-22	Q1553-82						
18	T	M21038/27-22T	QT 1553-82						
19	C	M21038/27-23C	QC1553-83	G	.275	1-3:4-8 1-3:5-7	1.25CT:1CT 1.66CT:1CT	1-3 3.2 4-8 3.0	(1-3) 4,000
20	M	M21038/27-23	Q1553-83						
21	T	M21038/27-23T	QT 1553-83						
22	C	M21038/27-24C	QC1553-84	G	.275	1-3:4-8 1-3:5-7	1CT:2.12CT 1CT:1.5CT	1-3 1.0 4-8 3.5	(4-8) 4,000
23	M	M21038/27-24	Q1553-84						
24	T	M21038/27-24T	QT 1553-84						
25	C	M21038/27-25C	QC1553-85	G	.275	1-3:4-8 1-3:5-7	1CT:2.50CT 1CT:1.79CT	1-3 1.0 4-8 3.5	(4-8) 4,000
26	M	M21038/27-25	Q1553-85						
27	T	M21038/27-25T	QT 1553-85						
28	C	M21038/27-26C	QC1553-45*	A QPL COTS	.250	1-3:4-8 1-3:5-7	1CT:2.50CT 1CT:1.79CT	1-3 1.0 4-8 3.5	(4-8) 4,000
29	M	M21038/27-26	Q1553-45*						
30	T	M21038/27-26T	QT 1553-45*						

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