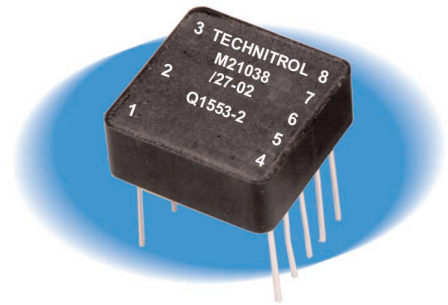


# Through the board MIL-PRF-21038/27 Level M Interface Transformers

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



## APPLICABLE SPECIFICATIONS

- MIL-STD-1553B
- MIL-STD-202
- MIL-I-45208
- MIL-T-10727
- MIL-PRF-21038/27\*
- ISO 9002

## SUMMARY PERFORMANCE SPECIFICATIONS

Impedance.....	see table
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.



## CHARACTERISTICS

MILITARY DESIGNATION NUMBER	TECHNITROL PART NO.	PACKAGE	HEIGHT (in.) MAX	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
M21038/27-01	Q1553-1	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
M21038/27-02	Q1553-2	A	.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
M21038/27-03	Q1553-3	A	.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
M21038/27-04	Q1553-4	A	.300	1-3:4-8 1-3:5-7	1CT:2.3CT 1CT:3.2CT	1-3 1.2 5-7 3.0	(5-7) 3000
M21038/27-10	Q1553-5*	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) 3,000
M21038/27-21	Q1553-81	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
M21038/27-22	Q1553-82	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
M21038/27-23	Q1553-83	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
M21038/27-24	Q1553-84	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
M21038/27-25	Q1553-85	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
M21038/27-26	Q1553-45*	A	.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

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

## SCHEMATICS AND DIMENSIONS

