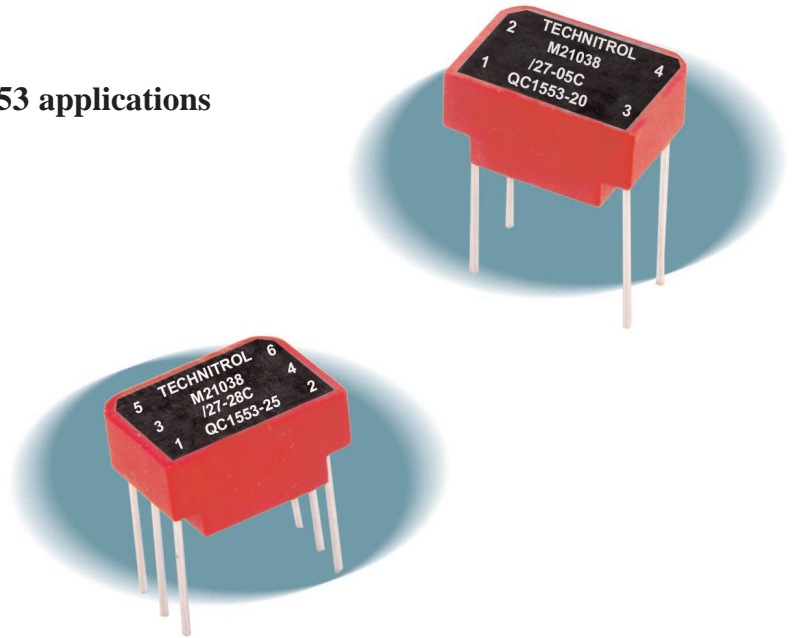


Through the board MIL-PRF-21038/27 Level C Interface Transformers

- qualified for use in QPL MIL-STD-1553 applications
- single ratio packages
- designed, built, and tested to MIL-PRF-21038 Level C*
- package C is 4-lead; package D is 6-lead (center tap)
- 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.*



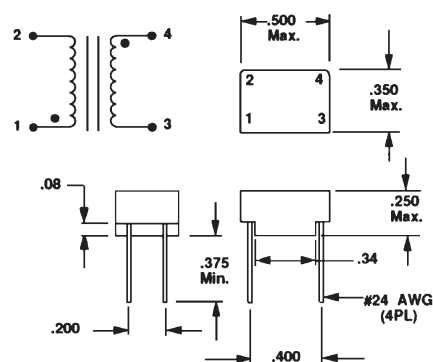
CHARACTERISTICS

MILITARY DESIGNATION NUMBER	TECHNITROL PART NO.	PACKAGE	HEIGHT (in.) MAX	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDENCE (ohms) MIN
M21038/27-05C	QC1553-20	C	.250	1-2:4-3	1:1.41	1-2 2.2 4-3 2.7	(4-3) 3,000
M21038/27-06C	QC1553-21	D	.250	1-5:6-2	1CT:1CT	1-5 2.5 6-2 2.8	(6-2) 3,000
M21038/27-07C	QC1553-22	D	.250	1-5:6-2	1CT:1.41CT	1-5 2.2 6-2 2.7	(6-2) 3,000
M21038/27-08C	QC1553-23	D	.250	1-5:6-2	1CT:1.66CT	1-5 1.5 6-2 2.4	(6-2) 3,000
M21038/27-09C	QC1553-24	D	.250	1-5:6-2	1CT:2CT	1-5 1.3 6-2 2.6	(6-2) 3,000
M21038/27-28C	QC1553-25*	D	.250	1-5:6-2	1CT:1.5CT	1-3 0.90 6-2 2.5	(6-2) 3,000
M21038/27-29C	QC1553-51*	D	.250	1-5:6-2	1CT:1.79CT	1.5 0.90 6-2 2.5	(6-2) 3,000
M21038/27-30C	QC1553-52*	D	.250	1-5:6-2	1CT:2.5CT	1-5 1.0 6-2 2.8	(6-2) 3,000

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

SCHEMATICS AND DIMENSIONS

Package C



Package D

