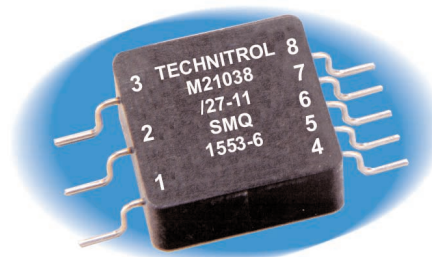


Surface mount MIL-PRF-21038/27 Level M Interface Transformers

- 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 B has gull-wing leads; Package F is flat pack
- 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.



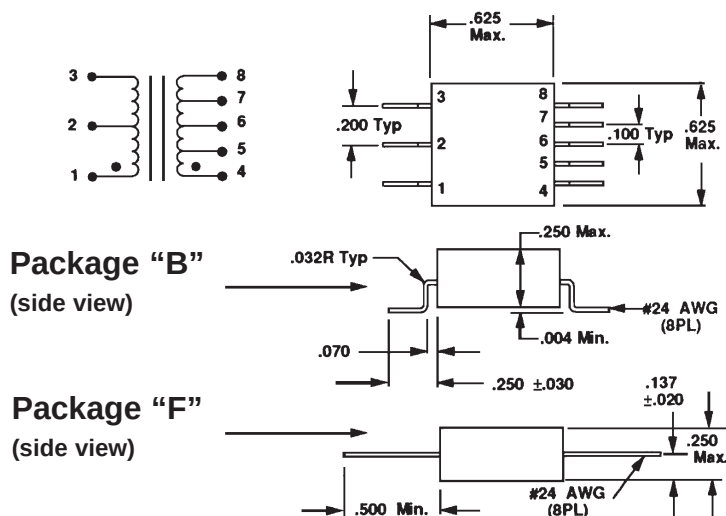
CHARACTERISTICS

MILITARY DESIGNATION NUMBER	TECHNITROL PART NO.	PACKAGE	HEIGHT (in.) MAX	TERMINALS	RATIO ($\pm 3\%$)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
M21038/27-11	SMQ1553-6	B	.250	1-3:4-8 1-3:5-7	1CT:1CT 1CT:1.707CT	1-3 3.0 4-8 3.0	(1-3) 4,000
M21038/27-12	SMQ1553-7	B	.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
M21038/27-13	SMQ1553-8	B	.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) 4,000
M21038/27-14	SMQ1553-9	B	.250	1-3:4-8 1-3:5-7	1CT:2.3CT 1CT:3.2CT	1-3 1.2 5-7 3.0	(5-7) 3,000
M21038/27-15	SMQ1553-10*	B	.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
M21038/27-16	FPQ1553-6	F	.250	1-3:4-8 1-3:5-7	1CT:1CT 1CT:1.707CT	1-3 3.0 4-8 3.0	(1-3) 4,000
M21038/27-17	FPQ1553-7	F	.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
M21038/27-18	FPQ1553-8	F	.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) 4,000
M21038/27-19	FPQ1553-9	F	.250	1-3:4-8 1-3:5-7	1CT:2.3CT 1CT:3.2CT	1-3 1.2 5-7 3.0	(5-7) 3,000
M21038/27-20	FPQ1553-10*	F	.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
M21038/27-27	SMQ1553-45*	B	.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
M21038/27-31	FPQ1553-45*	F	.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 -- Packages B and F

Note: Contact factory
for SMQ 1553-9 and
FPQ 1553-9 schematic



8l-sm~m