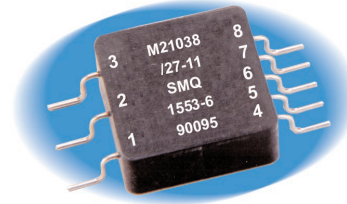
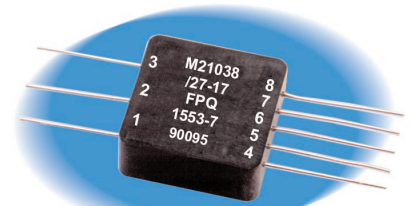




Dual ratio surface mount QPL pulse transformers

- 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 Level C, M, and T*
- 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-T-10727
- MIL-STD-202 ■ ISO 9002
- MIL-PRF-21038/27*

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

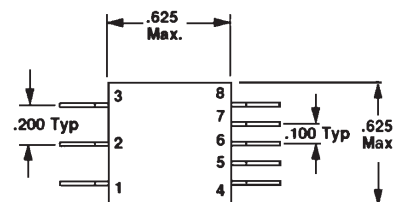
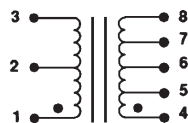
- Level C - for high reliability commercial/industrial applications;
- Level M - for general purpose military applications;
- Level T - for high reliability critical military applications.

SUMMARY PERFORMANCE SPECIFICATIONS

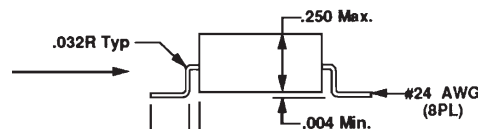
Impedance.....	see table, next page
Droop.....	≤ 20%
Overshoot.....	± 1V max
Common mode rejection (CMR).....	≥ 45 dB
Frequency range (no load).....	75 kHz to 1MHz
Operating temperature range.....	-55°C to 130°C
Weight.....	≤ 5 grams
Insulation resistance (min).....	10K megohms @ 250 Vdc
Dielectric withstanding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

SCHEMATIC AND DIMENSIONS

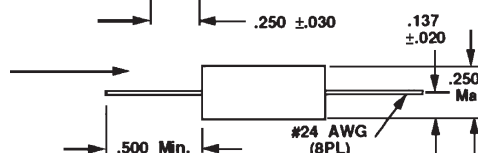
Note: Contact factory for SMQ1553-9 and FPQ1553-9 schematic



Package "B"
(side view)



Package "F"
(side view)





CHARACTERISTICS

■ dual ratio ■ surface mounting

LINE	LEVEL	MILITARY DESIGNATION NUMBER	TECHNITROL PART NO.	PACKAGE	HEIGHT (in.) MAX	TERMINALS	RATIO (±3%)	RDC (ohms) MAX	IMPEDANCE (ohms) MIN
1	C	M21038/27-11C	SMQC1553-6	B	.250	1-3:4-8	1CT:1CT	1-3 3.0	(1-3)
2	M	M21038/27-11	SMQ1553-6			1-3:5-7	1CT:707CT	1-3 3.0	4,000
3	T	M21038/27-11T	SMQT1553-6						
4	C	M21038/27-12C	SMQC1553-7	B	.250	1-3:4-8	1.4CT:1CT	1-3 3.5	(1-3)
5	M	M21038/27-12	SMQ1553-7			1-3:5-7	2CT:1CT	4-8 3.0	7,200
6	T	M21038/27-12T	SMQT1553-7						
7	C	M21038/27-13C	SMQC1553-8	B	.250	1-3:4-8	1.25CT:1CT	1-3 3.2	(1-3)
8	M	M21038/27-13	SMQ1553-8			1-3:5-7	1.66CT:1CT	4-8 3.0	4,000
9	T	M21038/27-13T	SMQT1553-8						
10	C	M21038/27-15C	SMQC1553-10	B	.250	1-3:4-8	1CT:2.12CT	1-3 1.0	(4-8)
11	M	M21038/27-15	SMQ1553-10			1-3:5-7	1CT:1.5CT	4-8 3.5	4,000
12	T	M21038/27-15T	SMQT1553-10						
13	C	M21038/27-16C	FPQC1553-6	F	.250	1-3:4-8	1CT:1CT	1-3 3.0	(1-3)
14	M	M21038/27-16	FPQ1553-6			1-3:5-7	1CT:707CT	4-8 3.0	4,000
15	T	M21038/27-16T	FPQT1553-6						
16	C	M21038/27-17C	FPQC1553-7	F	.250	1-3:4-8	1.4CT:1CT	1-3 3.5	(1-3)
17	M	M21038/27-17	FPQ1553-7			1-3:5-7	2CT:1CT	4-8 3.0	7,200
18	T	M21038/27-17T	FPQT1553-7						
19	C	M21038/27-18C	FPQC1553-8	F	.250	1-3:4-8	1.25CT:1CT	1-3 3.2	(1-3)
20	M	M21038/27-18	FPQ1553-8			1-3:5-7	1.66CT:1CT	4-8 3.0	4,000
21	T	M21038/27-18T	FPQT1553-8						
22	C	M21038/27-20C	FPQC1553-10	F	.250	1-3:4-8	1CT:2.12CT	1-3 1.0	(4-8)
23	M	M21038/27-20	FPQ1553-10			1-3:5-7	1CT:1.5CT	4-8 3.5	4,000
24	T	M21038/27-20T	FPQT1553-10						
25	C	M21038/27-27C	SMQC1553-45*	B	.250	1-3:4-8	1CT:2.50CT	1-3 1.0	(4-8)
26	M	M21038/27-27	SMQ1553-45*			1-3:5-7	1CT:1.79CT	4-8 3.5	4,000
27	T	M21038/27-27T	SMQT1553-45*						
28	C	M21038/27-31C	FPQC1553-45*	F	.250	1-3:4-8	1CT:2.50CT	1-3 1.0	(4-8)
29	M	M21038/27-31	FPQ1553-45*			1-3:5-7	1CT:1.79CT	4-8 3.5	4,000
30	T	M21038/27-31T	FPQT1553-45*						

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