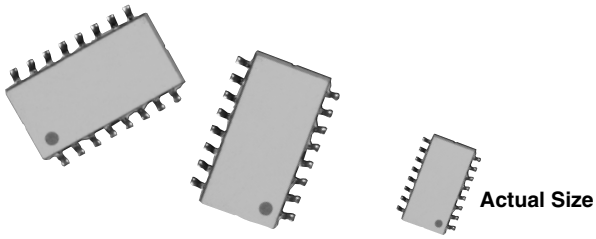
TOMC

Vishay Thin Film

Molded, 50 Mil Pitch Resistor Networks



FEATURES

- Lead (Pb)-free available
- 0.090" (2.29 mm) maximum seated height
- Rugged, molded case construction (0.22" wide)
- Highly stable thin film (500 ppm at 70 °C, 10 000 hours)
- Low temperature coefficient, ± 25 ppm/°C (- 55 °C to + 125 °C)
- Wide resistance range 100 Ω to 100 kΩ

Pb-free Available

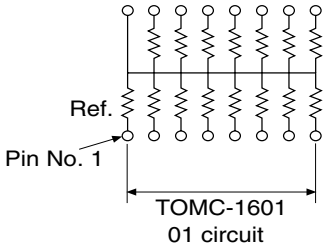
RoHS* COMPLIANT

Vishay Thin Film offers standard circuits in 16 pin in a medium body molded surface mount package. The networks are available over a resistance range of 100 ohms to 100K ohms. The network features tight ratio tolerances and close TCR tracking. In addition to the standards shown, custom circuits are available upon request.

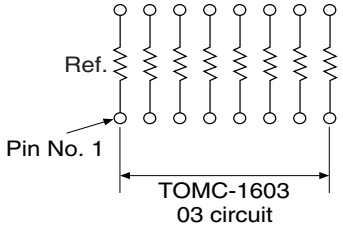
TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	25	5
	ABS	**RATIO**
TOL	0.1	0.025

SCHEMATIC



The 01 circuit provides 15 nominally equal resistors, each connected between a common lead (16) and a discrete PC board pin.



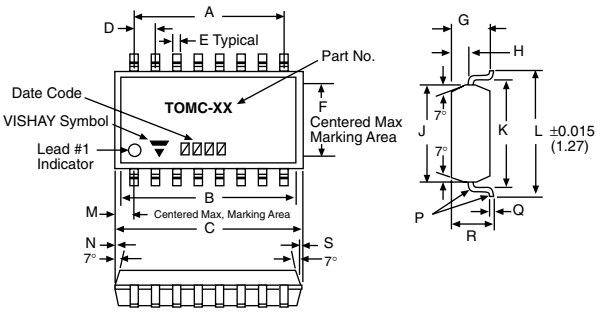
The 03 circuit provides a choice of 8 nominally equal resistors with each resistor isolated from all others and wired directly across.

STANDARD ELECTRICAL SPECIFICATIONS			
TEST		**SPECIFICATIONS**	**CONDITION**
PIN NUMBER		**16**	
Resistance Range		100 Ohms to 100K Ohms	
TCR:	**Tracking**	± 5 ppm/°C	- 55 °C to + 125 °C
	Absolute	± 25 ppm/°C	- 55 °C to + 125 °C
Tolerance:	**Ratio**	± 0.5 %, ± 0.1 %, ± 0.05 %, ± 0.025 %	+ 25 °C
	Absolute	± 0.1 %, ± 0.5 %, ± 0.25 %, ± 0.1 %	+ 25 °C
Power Rating:	**Resistor**	Pin 1 Common = 50 mW Isolated = 100 mW	Max. at + 70 °C
	Package	750 mW	Max. at + 70 °C
Stability:	**ΔR Absolute**	500 ppm	2000 hrs at + 70 °C
	ΔR Ratio	150 ppm	2000 hrs. at + 70 °C
Voltage Coefficient		0.1 ppm/Volt	
Working Voltage		50 Volts	
Operating Temperature Range		- 55 °C to + 125 °C	
Storage Temperature Range		- 55 °C to + 150 °C	
Noise		< - 30 dB	
Thermal EMF		0.08 µV/°C	
Shelf Life Stability:	**Absolute**	100 ppm	1 year at + 25 °C
	Ratio	20 ppm	1 year at + 25 °C

* Pb containing terminations are not RoHS compliant, exemptions may apply

For technical questions contact thin-film@vishay.com

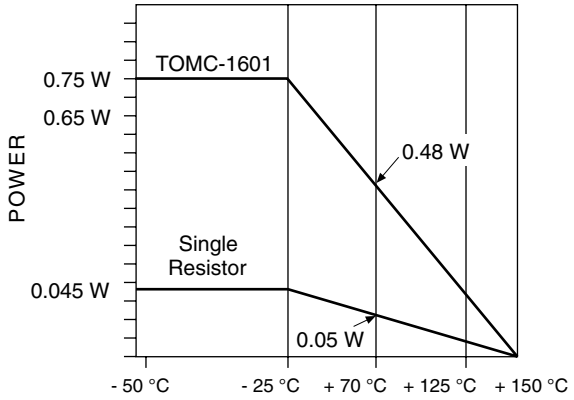
DIMENSIONS AND IMPRINTING in inches and millimeters

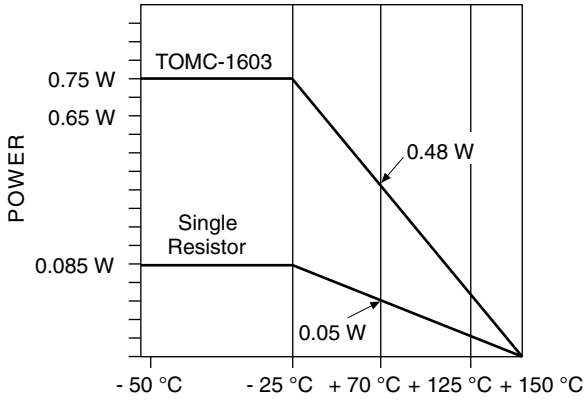


	INCHES	MM
D	0.050	1.27
E	0.018	0.457
F	0.160	4.06
G	0.08	2.03
H	0.036	0.914
J	0.22	5.59
K	0.244	6.20
L	0.30	7.52
M	0.045	1.14
N	0.003	0.076
P	0.005	1.27
Q	0.008	0.203
R	0.085	2.16
S	0.003	0.076

TYPE	A	B	C
16	0.350" (8.89)	0.400" (10.16)	0.440" (11.176)

DERATING CURVES





GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: TOMC16031002BUF (preferred part number format)

T	O	M	C	1	6	0	3	1	0	0	2	B	U	F
T	O	M	C	T	1	6	0	1	1	0	0	3	Z	T	1

GLOBAL MODEL (4 or 5 digits)	PINS	SCHEMATIC	RESISTANCE	TOLERANCE AND RATIO TOLERANCE	PACKAGING
TOMC (Tin Lead) **TOMCT** (Lead (Pb)-free) (e3)	**16**	**01** = 15 bussed equal resistors **03** = 7 or 8 Isolated equal resistors	First 3 digits are significant figures and the last digit specifies the number of zeroes to follow. Example: 1002 = 10K 1003 = 100K	Abs. Tol. / Ratio ****A** = 0.1 % / 0.05 % **B** = 0.1 % / 0.1% **C** = 0.25 % / 0.1 % **D** = 0.5 % / 0.1 % **F** = 1 % / 0.5 % ***Z** = 0.1 % / 0.025 % * Tol. available 1K and up ** Tol. available 250 and up	TAPE AND REEL **T0** = 100 Min 100 Mult **T1** = 1000 Min 1000 Mult **T3** = 300 Min 300 Mult **T5** = 500 Min 500 Mult **TF** = Full Reel 2500 **TS** = 100 Min 1 Mult **UF** = TUBED

Historical Part Number example: TOMC16011002Z (will continue to be accepted)

TOMC	16	01	1002	Z
SERIES	NUMBER OF LEADS	SCHEMATIC	RESISTANCE	TOLERANCE AND RATIO TOLERANCE

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