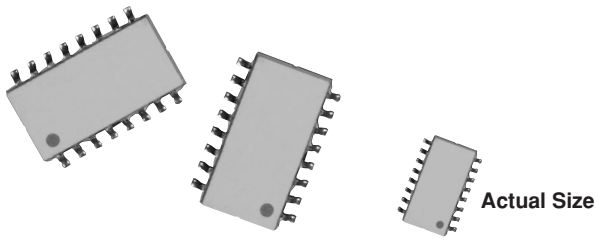
Molded, 50 Mil Pitch Resistor Networks



FEATURES

- Lead (Pb)-Free available
- 0.090" (2.29mm) maximum seated height
- Rugged, molded case construction (0.22" wide)
- Highly stable thin film
- Low temperature coefficient, ± 25ppm/°C (- 55°C to + 125°C)
- Wide resistance range 100 ohm to 100K ohm

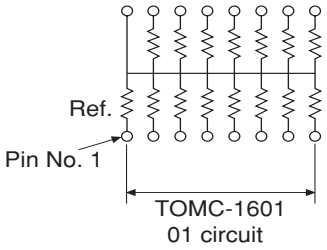
Pb-free Available

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.

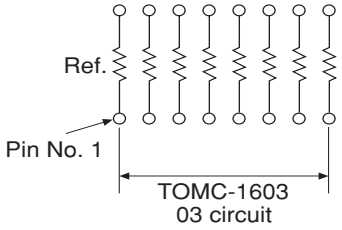
TYPICAL PERFORMANCE

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

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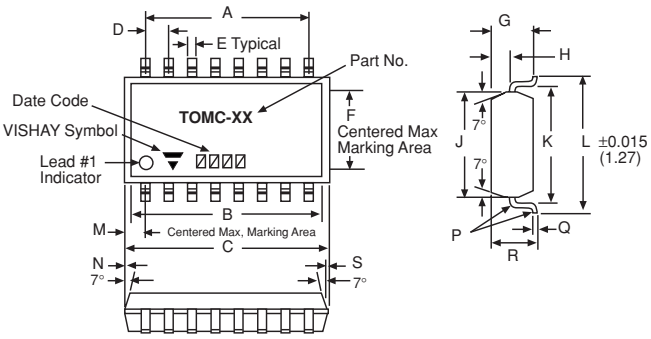
TOMC

Vishay Thin Film — Molded, 50 Mil Pitch Resistor Networks

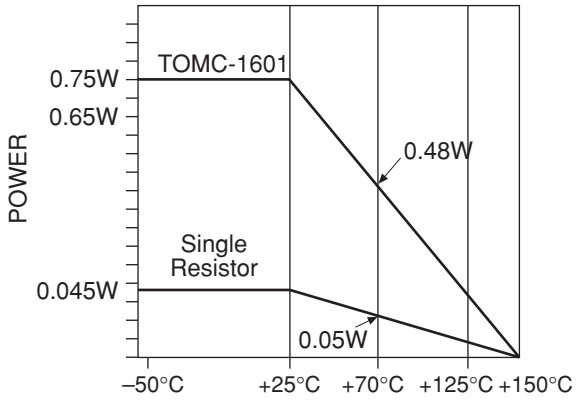
DIMENSIONS AND IMPRINTING in inches and millimeters

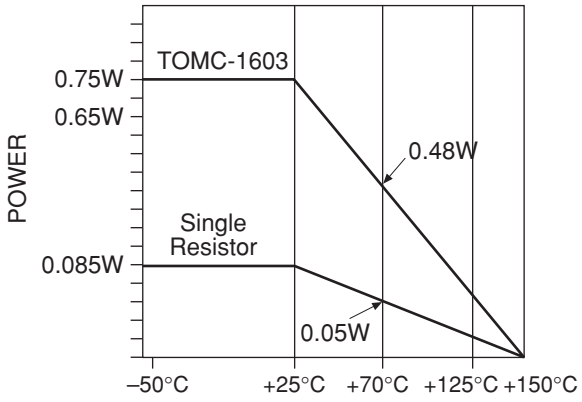


DIMENSION	INCHES	MILLIMETERS
D	0.050	1.27
E	0.018	0.457
F	0.160	4.06
G	0.08	2.03
H	0.036	0.914
J	0.22	5.59
K	0.244	6.20
L	0.30	7.52
M	0.045	1.14
N	0.003	0.076
P	0.005	1.27
Q	0.008	0.203
R	0.085	2.16
S	0.003	0.076

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

DERATING CURVES





How to Order

Series	No. of Leads	Schematic	Resistance Value	Tolerance & Ratio Tolerance
TOMC	16	**01** = 15 nominally equal resistors, each connected between a common lead (16) and a discrete PC board pin.	First 3 digits are significant figures. The last digit specifies the number of zeros to follow. e.g. **1001** = 1K **1002** = 10K	***Z** = ± 0.1% ±0.025% ratio match ****A** = ±0.1% ±0.05% ratio match **B** = ±0.1% ±0.1% ratio match **C** = ±0.25% ±0.1% ratio match **D** = ±0.5% ±0.1% ratio match **F** = ±1.0% ±0.5% ratio match
TOMCT (Lead (Pb)-free Version)	**16**	**03** = 8 nominally equal resistors with each resistor isolated from all others and wired directly across.		* Tolerance available on 1K and up only. ** Tolerance not available on less than 250 ohms.

Lead (Pb)-free Example: TOMCT1601XXXXZ

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