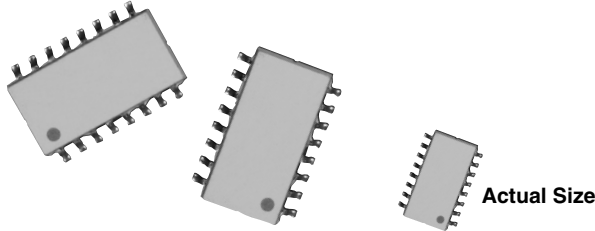
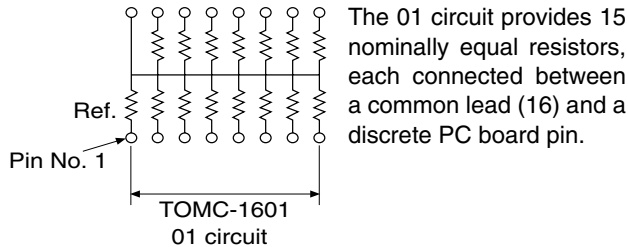


Molded, 50 Mil Pitch Resistor Networks



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 Ω to 100 k Ω . The network features tight ratio tolerances and close TCR tracking. In addition to the standards shown, custom circuits are available upon request.

SCHEMATIC



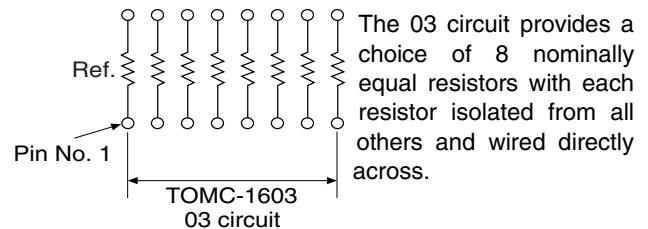
FEATURES

- 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 h)
- Low temperature coefficient, ± 25 ppm/ $^{\circ}\text{C}$ (- 55 °C to + 125 °C)
- Wide resistance range 100 Ω to 100 k Ω
- Isolated/Bussed circuits


RoHS*
COMPLIANT

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	25	5
	ABS	RATIO
TOL	0.1	0.025

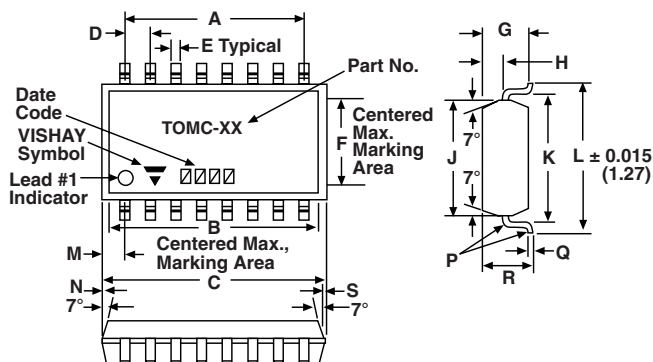


STANDARD ELECTRICAL SPECIFICATIONS

TEST	SPECIFICATIONS	CONDITIONS
Pin Number	16	
Resistance Range	100 Ω to 100 k Ω	
TCR:	Tracking	± 5 ppm/ $^{\circ}\text{C}$
	Absolute	± 25 ppm/ $^{\circ}\text{C}$
Tolerance:	Ratio	$\pm 0.5\%$, $\pm 0.1\%$, $\pm 0.05\%$, $\pm 0.025\%$
	Absolute	$\pm 0.1\%$, $\pm 0.5\%$, $\pm 0.25\%$, $\pm 0.1\%$
Power Rating:	Resistor	Pin 1 Common = 50 mW Isolated = 100 mW
	Package	750 mW
Stability:	ΔR Absolute	500 ppm
	ΔR Ratio	150 ppm
Voltage Coefficient	0.1 ppm/V	
Working Voltage	50 V	
Operating Temperature Range	- 55 °C to + 125 °C	
Storage Temperature Range	- 55 °C to + 150 °C	
Noise	< - 30 dB	
Thermal EMF	0.08 $\mu\text{V}/^{\circ}\text{C}$	
Shelf Life Stability:	Absolute	100 ppm
	Ratio	20 ppm

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

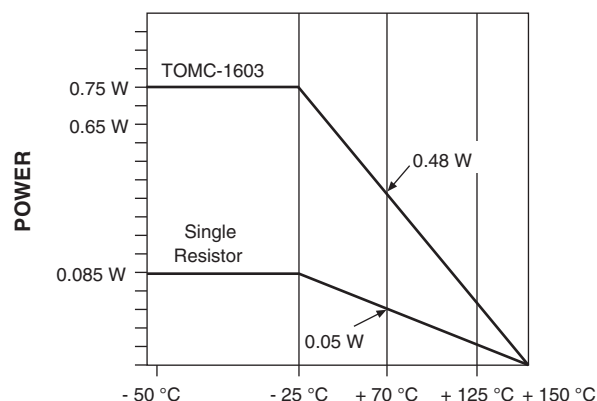
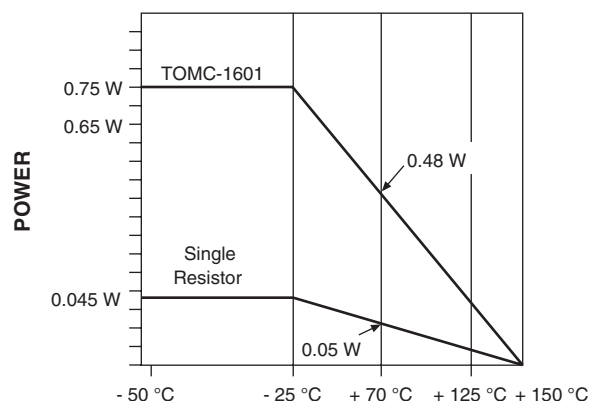
DIMENSIONS AND IMPRINTING in inches and millimeters



DIMENSION	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)

TOMC
(Tin lead)

TOMCT
(Lead (Pb)-free)
(e3)

PINS

16

SCHEMATIC

01 = 15 bussed
equal resistors

03 = 7 or 8
isolated equal
resistors

RESISTANCE

First 3 digits are
significant figures and
the last digit specifies
the number of zeroes
to follow.

Example:
1002 = 10K
1003 = 100K

TOLERANCE AND
RATIO TOLERANCE

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

PACKAGING

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 2000
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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