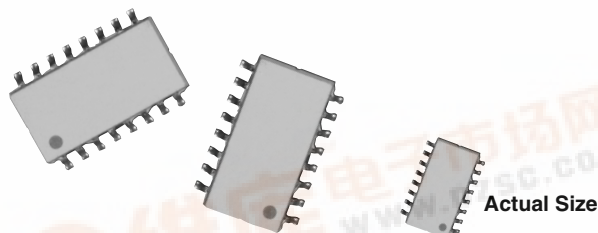


TOMC

Vishay Thin Film

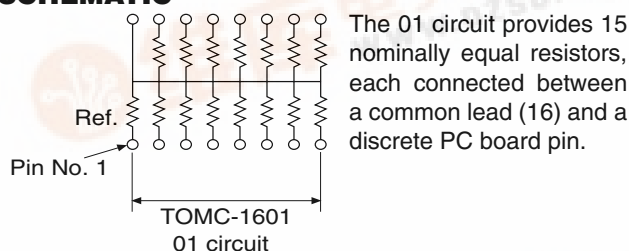


Molded, 50 Mil Pitch Resistor Networks



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 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.

SCHEMATIC



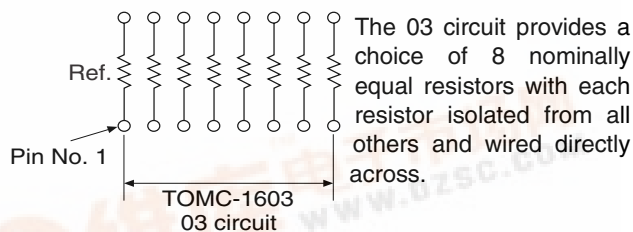
FEATURES

- 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 hours)
- Low temperature coefficient, ± 25 ppm/°C (- 55 °C to + 125 °C)
- Wide resistance range 100 Ω to 100 k Ω


RoHS*
COMPLIANT

TYPICAL PERFORMANCE

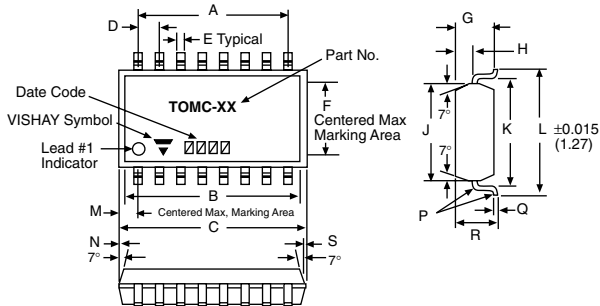
	ABS	TRACKING
TCR	25	5
	ABS	RATIO
TOL	0.1	0.025



STANDARD ELECTRICAL SPECIFICATIONS

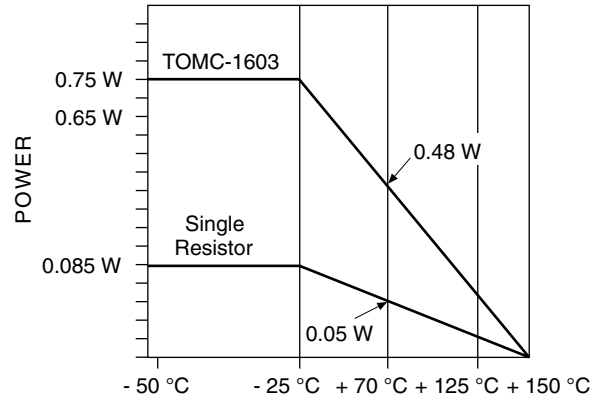
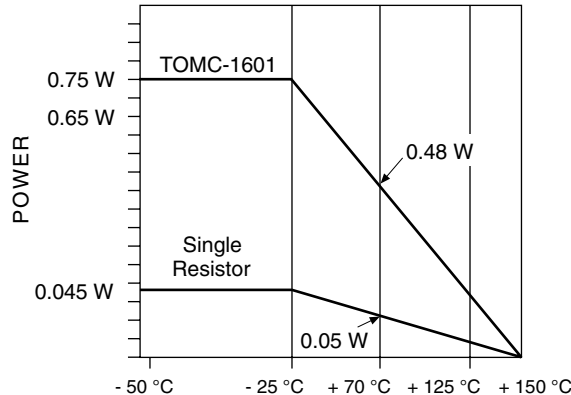
TEST	SPECIFICATIONS	CONDITION
PIN NUMBER	16	
Resistance Range	100 Ohms to 100K Ohms	
TCR:	Tracking	± 5 ppm/°C
	Absolute	± 25 ppm/°C
Tolerance:	Ratio	$\pm 0.5\%$, $\pm 0.1\%$, $\pm 0.05\%$, $\pm 0.025\%$
	Absolute	$\pm 0.1\%$, $\pm 0.5\%$, $\pm 0.25\%$, $\pm 0.1\%$
Power Rating:	Resistor	Pin 1 Common = 50 mW Isolated = 100 mW
	Package	750 mW
Stability:	ΔR Absolute	500 ppm
	ΔR Ratio	150 ppm
Voltage Coefficient	0.1 ppm/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 μ V/°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

	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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