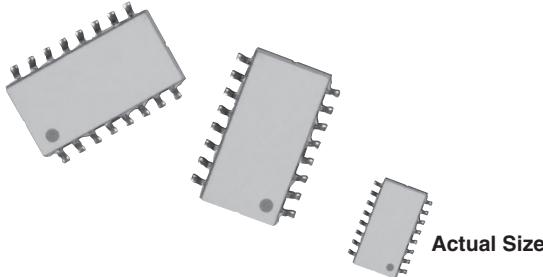
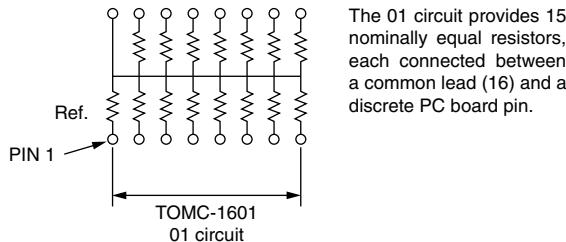


Molded, 50 mil Pitch, Dual-In-Line Thin Film Resistor, Surface Mount Network



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

SCHEMATIC



FEATURES

- 0.090" (2.29 mm) maximum seated height
- Rugged, molded case construction (0.22" wide)
- Highly stable thin film ratio stability ($\Delta R \pm 0.015\%$ at $70\ ^\circ\text{C}$ for 2000 h)
- Low temperature coefficient, $\pm 25\ \text{ppm}/^\circ\text{C}$ ($-55\ ^\circ\text{C}$ to $+125\ ^\circ\text{C}$)
- Wide resistance range $100\ \Omega$ to $100\ k\Omega$
- Isolated/bussed circuits
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

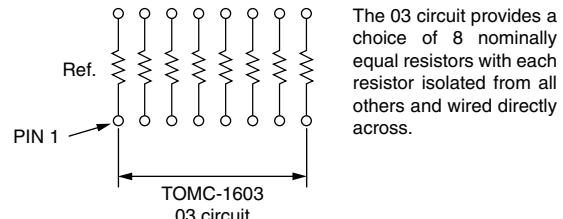
Note

* Lead (Pb)-containing terminations are not RoHS-compliant. Exemptions may apply.



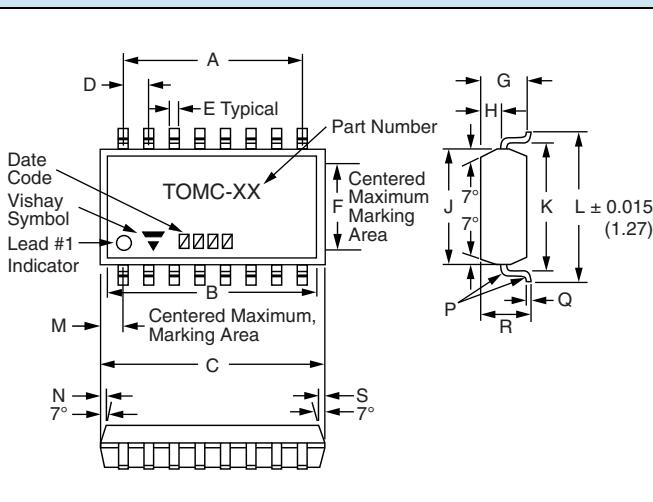
TYPICAL PERFORMANCE

	ABSOLUTE		TRACKING
TCR	25	5	
	ABSOLUTE		RATIO
TOL.	0.1	0.025	



STANDARD ELECTRICAL SPECIFICATIONS

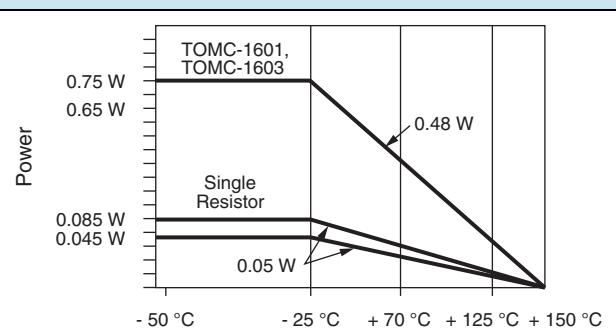
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	16	-
Resistance Range	$100\ \Omega$ to $100\ k\Omega$ per resistor	-
TCR: Absolute	$\pm 25\ \text{ppm}/^\circ\text{C}$	$-55\ ^\circ\text{C}$ to $+125\ ^\circ\text{C}$
TCR: Tracking	$\pm 5\ \text{ppm}/^\circ\text{C}$	$-55\ ^\circ\text{C}$ to $+125\ ^\circ\text{C}$
Tolerance: Absolute	$\pm 0.1\%$ to 1%	$+25\ ^\circ\text{C}$
Tolerance: Ratio	$\pm 0.025\%$ to 0.5%	$+25\ ^\circ\text{C}$
Power Rating: Resistor	$50\ \text{mW}$ = PIN 16 common $100\ \text{mW}$ = isolated	Maximum at $+70\ ^\circ\text{C}$
Power Rating: Package	$750\ \text{mW}$	Maximum at $+70\ ^\circ\text{C}$
Stability: Absolute	$\Delta R \pm 0.05\%$	2000 h at $+70\ ^\circ\text{C}$
Stability: Ratio	$\Delta R \pm 0.015\%$	2000 h at $+70\ ^\circ\text{C}$
Voltage Coefficient	$0.1\ \text{ppm}/\text{V}$	-
Working Voltage	$100\ \text{V}$ max. not to exceed $\sqrt{P \times R}$	-
Operating Temperature Range	$-55\ ^\circ\text{C}$ to $+125\ ^\circ\text{C}$	-
Storage Temperature Range	$-55\ ^\circ\text{C}$ to $+150\ ^\circ\text{C}$	-
Noise	$< -30\ \text{dB}$	-
Thermal EMF	$0.08\ \mu\text{V}/^\circ\text{C}$	-
Shelf Life Stability: Absolute	$\Delta R \pm 0.01\%$	1 year at $+25\ ^\circ\text{C}$
Shelf Life Stability: Ratio	$\Delta R \pm 0.002\%$	1 year at $+25\ ^\circ\text{C}$

DIMENSIONS AND IMPRINTING in inches and millimeters


DIMENSION	INCHES	MILLIMETERS
A	0.350	8.89
B	0.400	10.16
C	0.440	11.176
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	0.127
Q	0.008	0.203
R	0.085	2.16
S	0.003	0.076

MECHANICAL SPECIFICATIONS

Resistive Element	Passivated nichrome
Substrate Material	Silicon
Body	Molded epoxy
Terminals	Copper alloy
Lead (Pb)-free Option	100 % matte tin
Tin Lead Option	Sn85
Tin Lead and Lead (Pb)-free Finish	Plated

DERATING CURVE

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: TOMC16031002BUF

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)			16			01 = 15 bussed equal resistors			First 3 digits are significant figures and the last digit specifies the number of zeros to follow.			Abs. Tol. Ratio			TAPE AND REEL
TOMCT (Lead (Pb)-free) (e3)						03 = 7 or 8 isolated equal resistors			Example: 1002 = 10K 1003 = 100K			A = 0.1 % ⁽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 % ⁽²⁾ 0.025 %			T0 = 100 min., 100 mult T1 = 1000 min., 1000 mult ⁽³⁾ 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 (for reference purposes only)

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

Notes
⁽¹⁾ Tolerance available 250 and up

⁽²⁾ Tolerance available 1K and up

⁽³⁾ Preferred packaging code

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