TSOP ULTRA PRECISION RESISTOR NETWORKS

RoHs Compliant 2011/65/EU

HOW TO ORDER

TSOP 08 A 1003 B C

TCR (PPM/°C)
R = ±5 S = ±10
E = ±25 C = ±50

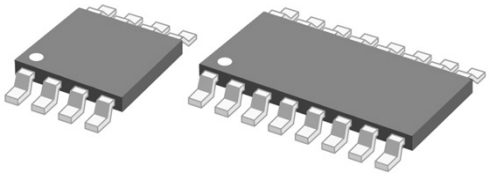
Resistance Tolerance
A = ±0.05% B = ±0.10%
C = ±0.25% D = ±0.50%
F = ±1%

Resistance Value
3 sig. fig & 1 multiplier ±1%

Circuit Type/Pattern
Refer to Circuit Schematic
A, B, C, D, E

Pins
8, 16

Series
Ultra Precision Molded Resistor



FEATURES

- TSOP High Precision NiCr Thin Film Resistor Networks with tight ratio and tracking
- 10 Standard Circuits
- Tight Tracking T.C.R to 1 PPM
- High Stability Thin Film
- 2.3mm High from PC Board, most fit for high density compacted instruments.
- Custom Circuit Configuration is Available

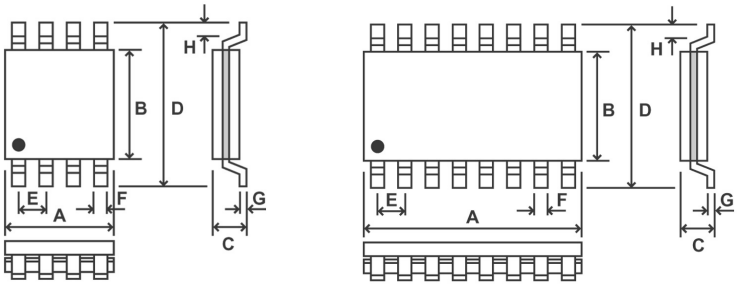
ELECTRICAL SPECIFACTIONS

Rated Power per Resistor at 70ºC	60mW
Maximum Working Voltage	75V
Maximum Overload Voltage	150V
Absolute TCR ppm/ºC	50, 25,10, 5
Absolute Tolerance %	0.25, 0.1, 0.05

MECHANICAL SPECIFACTIONS

Mechanical Protection	Epoxy Molded
Resistive Element	NiCr Film
Terminal Leads	Tinned

TSOP SCHEMATIC



TSOP 08 TSOP 16

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	± 5ppm	1, 2, 3, 5
	± 10ppm	1, 2, 3, 5, 10
	± 25ppm	1, 2, 3, 5, 10
	± 50ppm	1, 2, 3, 5, 10

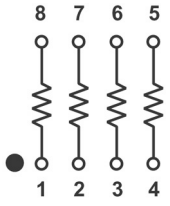
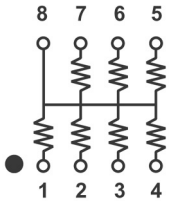
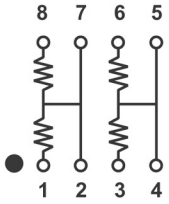
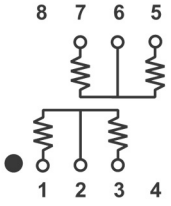
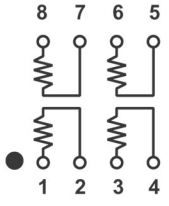
	ABS	RATIO
TOL.	± 0.05%	0.025, 0.05, 0.1
	± 0.10%	0.025, 0.05, 0.1, 0.2
	± 0.25%	0.025, 0.05, 0.1, 0.25, 0.5
	± 0.5%	0.25, 0.1, 0.05
	± 1%	0.5, 0.25, 0.1, 0.05

DIMENSIONS (mm)

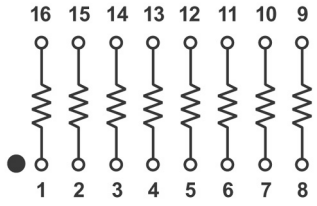
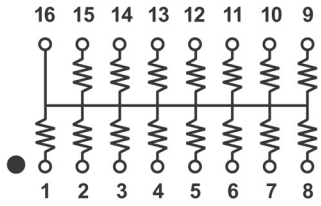
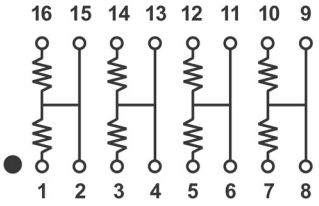
Model	A	B	C	D	E	F	G	H
TSOP 08	5.5 ± 0.3	5.3 ± 0.3	2.3 max	8.0 ± 0.2	1.27 ± 0.2	0.4 ± 0.05	0.2 ± 0.1	0.3 min
TSOP 16	10.5 ± 0.5	5.3 ± 0.3	2.3 max	8.0 ± 0.2	1.27 ± 0.2	0.4 ± 0.05	0.2 ± 0.1	0.3 min

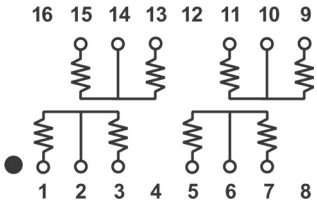
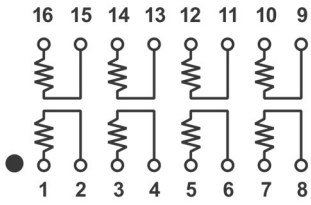
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CIRCUIT SPECIFICATION

Circuit Symbol	A	B	C	D	E
TSOP 08 Circuit Layout Options					
Resistance Range (Ω)	50.0 ~ 22.0K	50.0 ~ 10.0K	50.0 ~ 22.0K	50.0 ~ 22K	500 ~ 10.0K

CIRCUIT SPECIFICATION – 16 PINS

Circuit Symbol	A	B	C
TSOP 16 Circuit Layout Options			
Resistance Range (Ω)	50.0 ~ 22.0K	50.0 ~ 10.0K	50.0 ~ 22.0K

Circuit Symbol	D	E
TSOP 16 Circuit Layout Options		
Resistance Range (Ω)	50.0 ~ 22K	500 ~ 10.0K

PERFORMANCE

TEST	TEST METHOD	REQUIREMENTS
Operating Temperature Range		-55ºC ~ 155ºC
Short Time Overload	2.5 x rated voltage for 5 seconds	± (0.1% + 0.05Ω)
Temperature Cycle	-55ºC ~ 155ºC for 5 cycles	± (0.1% + 0.05Ω)
Resistance to Solder Heat	260ºC ± 5ºC for 10 seconds	± (0.05% + 0.05Ω)
Moisture Resistance Load Life	40°C, 90 ~ 95% R.H. rated voltage, 1,000 hours	± (0.1% + 0.05Ω)
Load Life at 70°C	70°C, rated voltage, 1.5 hours on, 0.5 hours off, 1,000 hours	± (0.1% + 0.05Ω)

The content of this specification may change without notification 5/15/2015

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