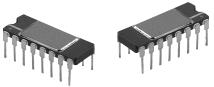


Hermetic, Dual-In-Line Resistor Networks (Custom)



Designed To Meet Or Exceed MIL-PRF-83401 Characteristic "C"

The most advanced thin film technology is put to work in the manufacture of exceptionally stable, precision thin film resistor networks in a variety of popular hermetic-type packages. These networks are based on the utilization of a resistive film possessing outstanding stability throughout board assembly and equipment life.

Manufacturing is performed under rigid process control by a team of specialists having many years experience in the design, fabrication and automatic laser adjustment of several hundred different precision thin film resistor networks. Circuits are designed for specific customer requirements and manufactured according to highly standardized procedures. Testing is conducted in one of the most completely equipped laboratories in the industry.

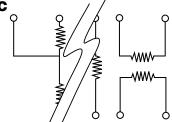
FEATURES

- · True hermetic construction
- Standard 8,14,16,18, 20 pin packages
- · Chip and wire construction
- Exceptional stability over time and temperature

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	10	2
	ABS	RATIO
	ABS	KATIO





Custom schematics available. Please consult factory.

TEST MATERIAL		SPECIFICATIONS	CONDITIONS TANTALUM NITRIDE*	
		TAMELOX®,		
Resistance Rang	e	50 ohms to 1.5 meg total	50 ohms to 300K total	
TCR:	Tracking	± 2ppm/°C (typical less 1ppm/°C equal values)	- 55°C to + 125°C	
	Absolute	±10ppm/°C to ± 25ppm/°C	- 55°C to + 125°C	
Tolerance:	Ratio	± 0.01% to ± 0.5%	+ 25°C	
	Absolute	± 0.02% to ±1.0%	+ 25°C	
Power Rating:	Resistor	100mW per element typical	+ 25°C	
Stability:	∆R Absolute	500ppm	2000 hrs. @ + 70°C	
	∆R Ratio	150ppm	2000 hrs. @ + 70°C	
Voltage Coefficie	nt	< 0.1ppm/V		
Working Voltage		100V		
Operating Tempe	erature Range	- 55°C to + 125°C		
Storage Tempera	ture Range	- 55°C to + 150°C		
Noise		< - 30dB		
Thermal EMF		< 0.10µV/°C		
Shelf Life Stabilit	y: Absolute	100ppm	1 year @ + 25°C	
	Ratio	20ppm	1 year @ + 25°C	

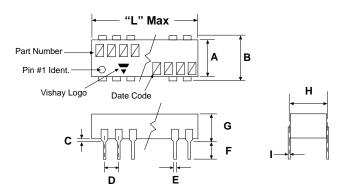
^{*}Tantalum Nitride film is custom, available upon request.

VISHAY THIN FILM • FRANCE +33.4.93.37.28.24 FAX: +33.4.93.37.27.31 • GERMANY +49.9287.710 FAX: +49 9287.70435 • ISRAEL +972.3.557.0945 FAX: +972.3.558.9121 • ITALY + 39.2.300.11919 FAX: +39.2.300.11999 • JAPAN +81.42.729.0661 FAX: +81.42.729.3400 • SINGAPORE +65.788.6668 FAX: +65.788.0988 • SWEDEN +46.8.594.70590 FAX: +46.8.594.70581 • UK +44 191 514 8237 FAX: +44 1953 457 722 • USA: (610) 407-4800 FAX: (610) 640-9081

Vishay Thin Film Hermetic, Dual-In-Line Resistor Networks (Custom)



DIMENSIONS AND IMPRINTING in inches and millimeters



DIMENSION	INCHES	MILLIMETERS
Α	0.295	7.49
В	0.310 ±0.010	7.88 ±0.25
С	0.035 ±0.010	0.89 ±0.25
D	0.100 Non-accum.	2.54
Е	0.018 ±0.002	0.46 ±0.05
F	0.130 Typical	3.30
G	0.130 Max.	3.30
Н	0.300 Typical	7.62
1	0.010 Typical	0.25

NUMBER OF PINS	8	14	16	18	20
"L" Dimensions	0.528	0.710	0.810	0.910	1.010
(mm)	(13.41)	(18.03)	(20.57)	(23.11)	(25.65)

MECHANICAL SPECIFICATIONS	
Resistive Element	Tamelox [®] or Tantalum Nitride
Substrate Material	Alumina
Body	Ceramic
Terminals	Copper Alloy

How to Order Check List

Special requirements should be identified in advance, but as a minimum, you should have the following information ready.

Electrical

- 1. Resistors, by value and tolerance.
- 2. Reference resistor(s) and matching of which resistors to which reference resistors.
- 3. Resistance by ratio.
- 4. Absolute temperature coefficient of resistivity.
- 5. Temperature tracking of subordinate resistors to reference resistor(s).
- Maximum operating voltage.
- 7. Resistor power ratings.
- 8. Operating temperature range.

Mechanical

- 1. Maximum allowable seated height (from PC board to top of network).
- 2. Special marking concerns.
- 3. Schematic pin out of package.

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