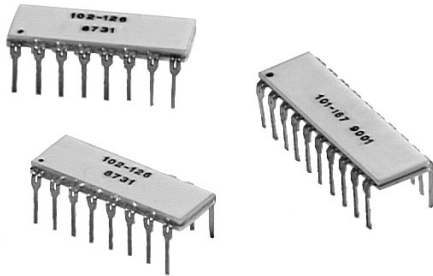


Ceramic Sandwich, Dual-In-Line, Resistor Network (Custom)



A dual-in-line monolithic ceramic package in a variety of sizes and configurations. A rugged, low cost packaging technique with 4 – 20 leads that allows higher resistance integration than chip and wire ceramic packages.

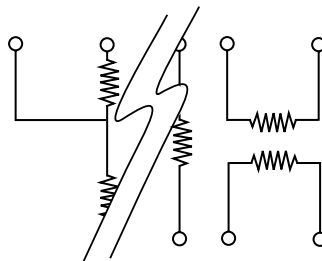
FEATURES

- Gold-to-gold terminations. External leads are attached directly to gold pads on the ceramic substrate by thermo-compression bonding (no internal solder).
- Monolithic construction
- Ceramic package with no cavity. 4 to 20 Pins
- Flexibility of lead variations to save PC board space.

TYPICAL PERFORMANCE

	ABS	TRACKING
TCR	10	2
	ABS	RATIO
TOL	0.1	0.02

SCHEMATIC



Custom schematics available.
Please consult factory

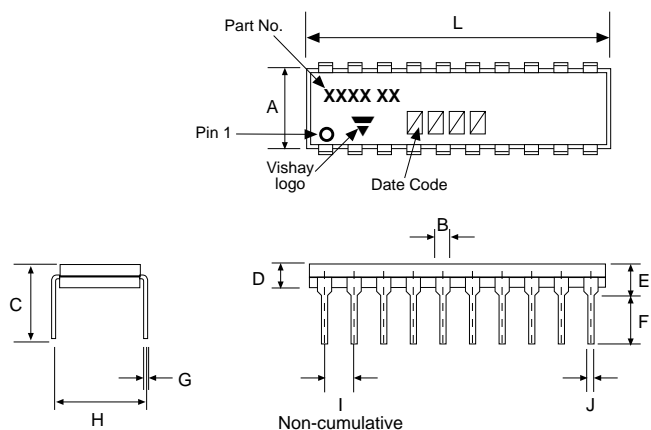
THROUGH HOLE

STANDARD ELECTRICAL SPECIFICATIONS			
TEST		SPECIFICATIONS	CONDITIONS
MATERIAL		TAMELOX[®] , TANTALUM NITRIDE*	
TCR:	Tracking	$\pm 2\text{ppm}/^\circ\text{C}$ $\pm 5\text{ppm}/^\circ\text{C}$	- 55°C to + 125°C
	Absolute	$\pm 10\text{ppm}/^\circ\text{C}$ $\pm 25\text{ppm} \pm 100\text{ppm}$	- 55°C to + 125°C
Tolerance:	Ratio	$\pm 0.01\%$ to $\pm 0.1\%$ $\pm 0.01\%$ to $\pm 0.1\%$	+ 25°C
	Absolute	$\pm 0.1\%$ to $\pm 1\%$	+ 25°C
Power Rating:	Resistor	100mW per element typical	Max. at + 70°C
	Package	500mW	Max. at + 70°C
Stability:	ΔR Absolute	1000ppm	2000 hrs. @ + 70°C
	ΔR Ratio	300ppm	2000 hrs. @ + 70°C
Voltage Coefficient		0.1ppm/Volt	
Working Voltage		100 Volts	
Operating Temperature Range		- 55°C to + 125°C	
Storage Temperature Range		- 55°C to + 125°C	
Noise		< - 30dB	
Thermal EMF		< 0.1 $\mu\text{V}/^\circ\text{C}$	
Shelf Life Stability:	Absolute	100ppm	1 year @ + 25°
	Ratio	20ppm	1 year @ + 25°

* Tantalum Nitride film is custom.

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DIMENSIONS in inches and millimeters



NUMBER OF PINS	LENGTH (INCHES) "L" DIMENSION	LENGTH (MILLIMETERS)
4	0.220	5.59
6	0.320	8.13
8	0.420	10.67
10	0.520	13.21
12	0.620	15.75
14	0.720	18.29
16	0.820	20.83
18	0.920	23.37
20	1.020	25.91

DIMENSION	INCHES	MILLIMETERS
A	0.260 Max.	6.61
C	0.160 Typical	4.06
E	0.125	3.18
G	0.01	0.254
I	0.100	2.54

DIMENSION	INCHES	MILLIMETERS
B	0.050	1.27
D	0.080	2.03
F	0.125 Min.	3.18
H	0.325	8.25
J	0.020	0.51

STANDARD ELECTRICAL SPECIFICATIONS

Resistive Material	Tamelox® or Tantalum Nitride
Substrate Material	Alumina
Body	Ceramic
Terminals	Copper Alloy #42
Plating	Gold
Marking Resistance to Solvents	Per MIL-PRF-83401

How to Order Check List

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

Electrical	Mechanical
<ol style="list-style-type: none"> Resistors, by value and tolerance. Reference resistor(s) and matching of which resistors to which reference resistors. Resistance by ratio. Absolute temperature coefficient of resistivity. Temperature tracking of subordinate resistors to reference resistor(s). Maximum operating voltage. Resistor power ratings. Operating temperature range. 	<ol style="list-style-type: none"> Maximum allowable seated height (from PC board to top of network). Special marking concerns. Schematic pin out of package.

THROUGH HOLE