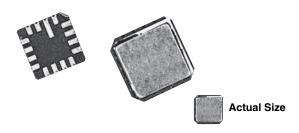
RoHS[®]

COMPLIANT



Vishay Thin Film

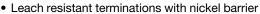
Hermetic, 50 mil Pitch, Leadless Chip Resistor, Surface Mount Network



Vishay Thin Film offers a wide resistance range in 16, 20, and 24 terminal hermetic leadless chip carriers. The standard circuits in the ohmic ranges listed below will utilize the outstanding wraparound terminations developed for chip resistors. Should one of the standards not fit your application, consult the applications engineering group as we may be able to meet your requirements.

FEATURES

High purity alumina substrate for high power dissipation



- 16, 20, 24 terminal gold plated wraparound true hermetic packaging
- Military/aerospace
- Hermetically sealed
- · Isolated/bussed circuits
- Ideal for military/aerospace applications
- Compliant to RoHS directive 2002/95/EC

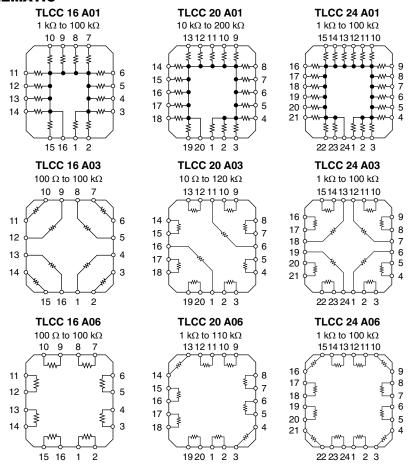
TYPICAL PERFORMANCE

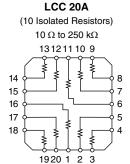
	ABSOLUTE	TRACKING		
TCR	25	5		
	ABSOLUTE	RATIO		
TOL.	0.1	NA		

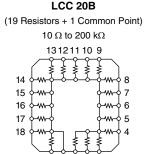
Note

Resistance range: Noted on schematics

SCHEMATIC







1920 1 2

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^{*} Pb containing terminations are not RoHS compliant, exemptions may apply

LCC, TLCC

Vishay Thin Film

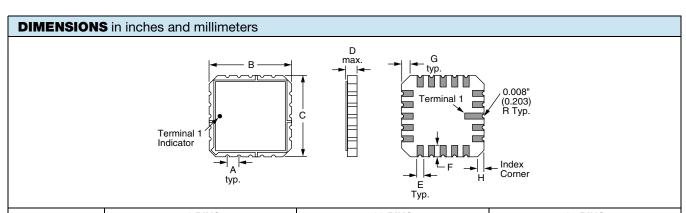
Hermetic, 50 mil Pitch, Leadless Chip Resistor, Surface Mount Network



STANDARD ELECTRICAL SPECIFICATIONS					
TEST	SPECIFICATIONS	CONDITIONS			
Material	Passivated nichrome	-			
Pin/Lead Number	16, 20, 24	-			
Resistance Range	10 Ω to 250 k Ω per resistor	-			
TCR: Absolute	± 25 ppm/°C to ± 300 ppm/°C - 55 °C to +				
TCR: Tracking	± 5 ppm/°C	- 55 °C to + 125 °C			
Tolerance: Absolute	± 0.1 % to ± 1.0 %	+ 25 °C			
Tolerance: Ratio	N/a	-			
Power Rating: Resistor	50 mW max. = common circuits 100 mW max. = isolated circuits	Maximum at + 70 °C			
Power Rating: Package	500 mW	W Maximum at + 70 °C			
Stability: Absolute	ΔR ± 0.05 %	2000 h at + 70 °C			
Stability: Ratio	-	-			
Voltage Coefficient	< 5 ppm/V (typical)	-			
Working Voltage	100 V max. not to exceed √P x R -				
Operating Temperature Range	- 55 °C to + 125 °C	-			
Storage Temperature Range	- 55 °C to + 150 °C -				
Noise	< - 30 dB -				
Thermal EMF	0.008 μV/°C	-			
Shelf Life Stability: Absolute	Life Stability: Absolute $\Delta R \pm 0.01 \%$				
Shelf Life Stability: Ratio	-	-			

Note

[•] Tantalum nitride film is custom, consult factory



DIMENSION	16 PINS		20 PINS		24 PINS	
DIMENSION	INCHES	MILLIMETERS	INCHES	MILLIMETERS	INCHES	MILLIMETERS
А	0.050	1.27	0.050	1.27	0.050	1.27
В	0.300	7.26	0.350	8.89	0.400	10.16
С	0.300	7.26	0.350	8.89	0.400	10.16
D	0.077	1.96	0.077	1.96	0.077	1.96
E	0.025	0.635	0.025	0.635	0.025	0.635
F	0.050	1.27	0.050	1.27	0.050	1.27
G	0.040	1.02	0.040	1.02	0.040	1.02
Н	0.020	0.508	0.020	0.508	0.020	0.508

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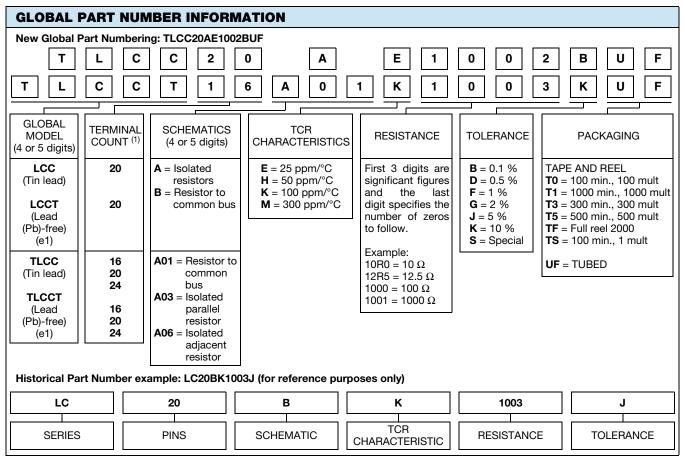




Hermetic, 50 mil Pitch, Leadless Chip Resistor, Surface Mount Network

Vishay Thin Film

MECHANICAL SPECIFICATIONS			
Resistive Element	Passivated nichrome		
Substrate Material	Alumina		
Body	Ceramic		
Terminals	Gold over nickel		
Marking Resistance to Solvents	Per MIL-PRF-83401		
Tin Lead Option	Sn63		
Lead (Pb)-free Option	96.5 % Sn, 3.0 % Ag, 0.5 % Cu		
Tin Lead and Lead (Pb)-free	Hot solder dip		



Note

(1) LCC or LCCT only available in 20 pin size





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Revision: 18-Jul-08

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