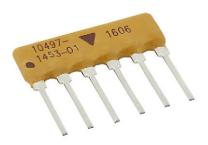


Conformal, Single In-Line Thin Film Resistor, Through Hole Network (Custom)



Wirewound or metal film performance in a space saving package.

SIP networks available in 3 pins to 10 pins sizes can obtain important performance parameters in an economical, mass producible style. SIPs take up the least amount of board space and are the easiest possible configuration to hand-insert into printed circuit boards. Standard pin centers are 0.100". Passivation coatings plus a conformal coating of epoxy protect the active element from the outside environment.

FEATURES

- Minimal PC board space
- Standard 100 mil centers





RoHS

- Integrated construction
- Conformal coating flame resistant (UL 94 V-0 rating)
- Material categorization: for definitions of compliance please see <u>www.vishav.com/doc?99912</u>

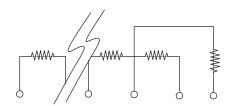
Note

* This datasheet provides information about parts that are RoHS-compliant and / or parts that are non-RoHS-compliant. For example, parts with lead (Pb) terminations are not RoHS-compliant. Please see the information / tables in this datasheet for details.

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	10	2
	ABSOLUTE	RATIO
TOL.	0.05	0.02

SCHEMATIC



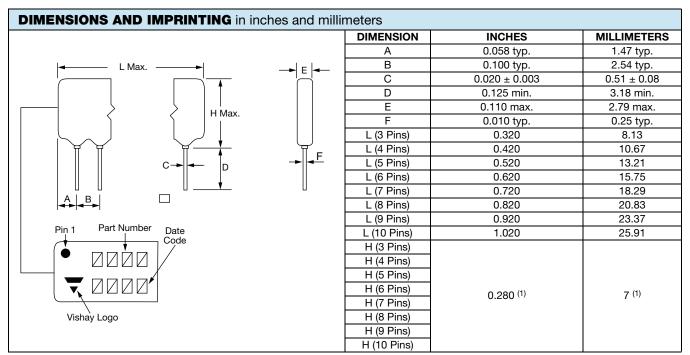
Custom schematics available. Please consult factory.

STANDARD ELECTRICAL SPECIFICATIONS		
TEST	SPECIFICATIONS	CONDITIONS
Material	Passivated nichrome	-
Pin/Lead Number	3 to 10	-
Resistance Range	100 Ω to 2 M Ω total	-
TCR: Absolute	± 10 ppm/°C to ± 25 ppm/°C	-55 °C to +125 °C
TCR: Tracking	± 2 ppm/°C to ± 5 ppm/°C	-55 °C to +125 °C
Tolerance: Absolute	± 0.05 % to ± 1.0 %	+25 °C
Tolerance: Ratio	± 0.01 % to ± 0.5 %	+25 °C
Power Rating: Resistor	0.100 W (per element)	Maximum at +70 °C
Power Rating: Package	-	Maximum at +70 °C
Stability: Absolute	ΔR ± 0.05 %	2000 h at +70 °C
Stability: Ratio	ΔR ± 0.015 %	2000 h at +70 °C
Voltage Coefficient	< 0.1 ppm/V	-
Working Voltage	100 V	-
Operating Temperature Range	-55 °C to +125 °C	-
Storage Temperature Range	-55 °C to +125 °C	-
Noise	< -30 dB	-
Thermal EMF	< 0.10 μV/°C	-
Shelf Life Stability: Absolute	ΔR ± 0.01 %	1 year at +25 °C
Shelf Life Stability: Ratio	ΔR ± 0.002 %	1 year at +25 °C

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Vishay Dale Thin Film



Note

(1) H dimension, R-value and schematic dependent

Resistor networks or application engineering.

All standard products may be ordered directly from Vishay Thin Film.

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Alumina	
Body	Epoxy coated	
Terminals	Copper alloy	
Tin/Lead Option	Sn60 - Sn63	
Lead (Pb)-free Option	Sn96.5, Ag3.0, Cu0.5	
Tin/Lead and Lead (Pb)-free Finish	Hot solder dip	

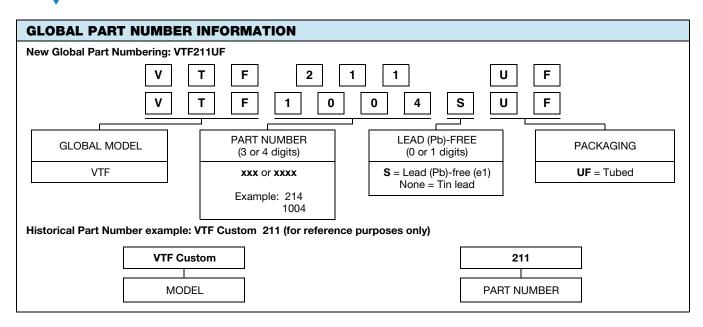
ORDERING INFORMATION CHECK LIST (Customs)				
Special requirements should be identified in advance, but as a minimum, you should have the following information ready.				
ELECTRICAL	MECHANICAL			
 Resistors, by value and tolerance Reference resistor(s) and matching of which resistors to which reference 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 	Maximum allowable seated height (from PC board to top of network) Special marking concerns Schematic pin out of package Specify if lead (Pb)-free			

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Vishay Dale Thin Film





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Vishay

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