RoHS

COMPLIANT

HALOGEN

FREE

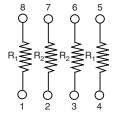


Molded, 50 mil Pitch, High Temperature (215 °C); Thin Film Surface Mount, Dual-In-Line Resistor Network



HTRN series resistor networks feature four isolated resistors with standard 50 mil pitch lead spacing. HTRN is ideal to be used in oil/gas exploration industry, automotive under the hood applications, and aerospace engine control high temperature applications. The networks feature close TCR tracking and tight ratio tolerance and are ideally suited for unity gain operational amplifier circuitry. The standard resistance offering listed are available for immediate delivery.

SCHEMATIC



FEATURES

- Ratio tolerance to ± 0.05 %
- Ratio stability ± 0.1 %
- - 55 °C to 215 °C operating temperature range
- 0.068" (1.73 mm) maximum seated height
- Rugged molded case construction with no internal solder
- Low temperature coefficient (± 25 ppm/°C)
- JEDEC MS-012 STD variation AA package
- · Gold terminations for durable attach bonds
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

TYPICAL PERFORMANCE

	ABSOLUTE	TRACKING
TCR	25	5
	ABSOLUTE	RATIO
TOL.	0.1	0.05

STANDARD RESISTANCE OFFERING (R ₁ /R ₂)			
RATIO	R ₁	R ₂	
100:1	100K	1K	
50:1	50K	1K	
25:1	25K	1K	
20:1	20K	1K	
10:1	10K	1K	
5:1	10K	2K	
2:1	10K	5K	
4:1	4K	1K	

Note

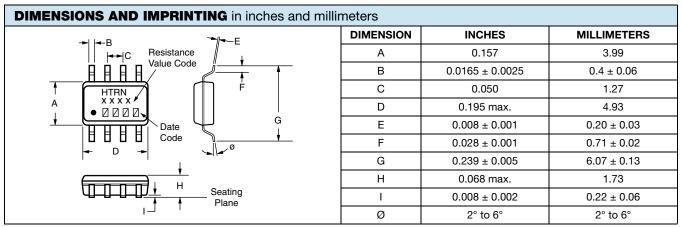
Consult factory for additional values and schematics

STANDARD ELECTRICAL SPECIFICATIONS			
TEST	SPECIFICATIONS	CONDITIONS	
Material	Passivated nichrome	-	
Pin/Lead Number	8	-	
Resistance Range	1000 Ω to 100 k Ω per resistor	-	
TCR: Absolute	± 25 ppm/°C	- 55 °C to + 125 °C	
TCR: Tracking	± 5 ppm/°C	- 55 °C to + 125 °C	
Tolerance: Absolute	0.1 %	+ 25 °C	
Tolerance: Ratio	0.05 %	+ 25 °C	
Power Rating: Resistor	100 mW	Maximum at + 70 °C	
Power Rating: Package	400 mW	Maximum at + 70 °C	
Stability: Absolute	$\Delta R \pm 0.5 \%$	2000 h at + 215 °C at 25 % rated power	
Stability: Ratio	$\Delta R \pm 0.1$ %	2000 h at + 215 °C at 25 % rated power	
Voltage Coefficient	0.1 ppm/V (typical)	-	
Working Voltage	100 V max. not to exceed $\sqrt{P \times R}$	-	
Operating Temperature Range	- 55 °C to + 215 °C	-	
Storage Temperature Range	- 55 °C to + 215 °C	-	
Noise	< - 30 dB	-	
Thermal EMF	0.08 μV/°C	-	
Shelf Life Stability: Absolute	ΔR ± 0.01 %	1 year at + 25 °C	
Shelf Life Stability: Ratio	$\Delta R \pm 0.002 \%$	1 year at + 25 °C	

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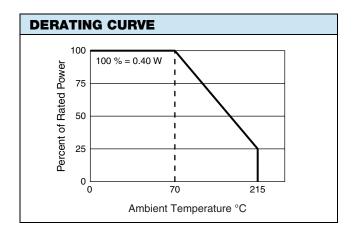
Vishay Dale Thin Film

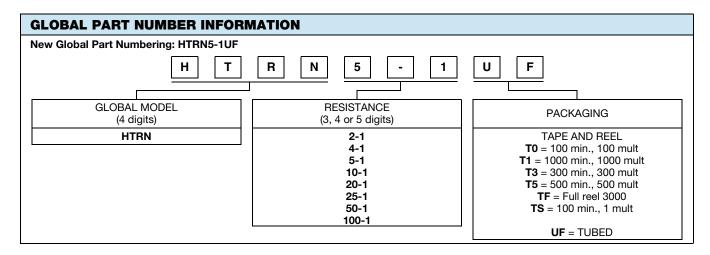


Note

• Marking - Vishay symbol, part number from ordering information

MECHANICAL SPECIFICATIONS		
Resistive Element	Passivated nichrome	
Substrate Material	Silicon	
Body	Molded epoxy	
Terminals	Copper	
Termination Finish	Plated Ni/Pd/Au	







Legal Disclaimer Notice

Vishay

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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
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- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001:
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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