Vishay Sfernice

Single Value Wirebondable Thin Film Chip Resistors



www.vishay.com

FEATURES

- Small size 20 mil square
- Resistance range 10 Ω to 1 M Ω
- · Resistor material: self-passivating Tantalum Nitride
- Silicon substrate for good power dissipation
- Wirebondable
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

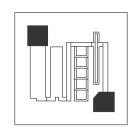


ISHA

Thin film resistors are often an excellent solution for analog design problems where space is limited and high packing density is required. Due to their Tantalum Nitride resistive layer these resistors are stable 0.07 % (2000 h, rated power at +70 °C) and moisture resistant.

SCHEMATIC AND PATTERN



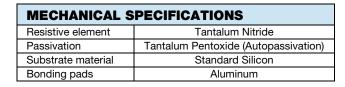


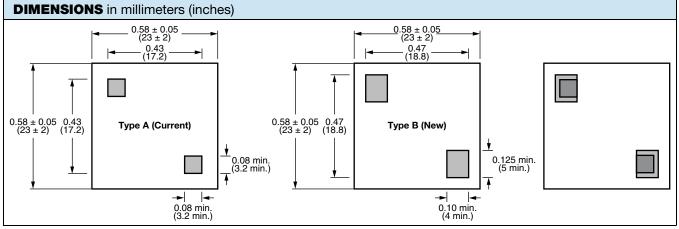
STANDARD ELECTRICAL SPECIFICATIONS								
MODEL	SIZE	RESISTANCE RANGE Ω	RATED POWER P _{70 °C} W	LIMITING ELEMENT VOLTAGE V	TOLERANCE ± %	TEMPERATURE COEFFICIENT ± ppm/°C		
TA22	0202	10 to 1M	0.05	100	0.5, 1.0, 2.0	50 ⁽¹⁾ , 100		
NL - L -								

Note

(1) On request

CLIMATIC SPECIFICATIONS				
Operating temperature range	-55 °C to +155 °C			
Storage temperature range	-55 °C to +155 °C			





Note

Customer can get one or the other part, but positions of pads are similar

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FREE

GREEN

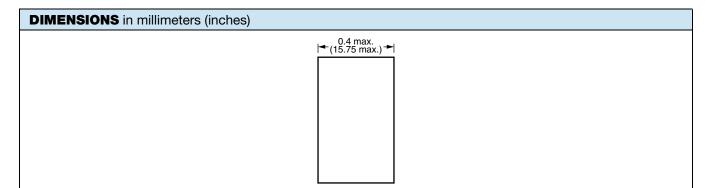
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TA22



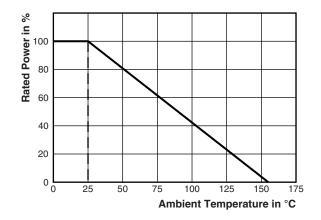
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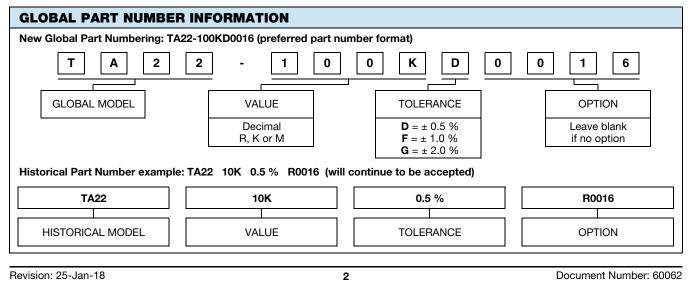
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TECHNICAL SPECIFICATIONS					
TEST	SPECIFICATIONS	CONDITIONS			
MATERIAL	TANTALUM NITRIDE				
Power dissipation	100 mW at 25 °C, 50 mW at +70 °C, 25 mW at +125 °C				
Stability	± 0.07 % typical, ± 0.1 maximum	2000 h at +70 °C at Pn			
Voltage coefficient	< 0.1 ppm/V				
Noise	< -35 dB typical	MIL-STD-202 method 308			
Thermal EMF	< 0.01 µV/°C				
Shelf life stability	100 ppm	1 year at +25 °C			

DERATING





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