

Single Value Wirebondable Thin Film Chip Resistors



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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

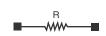




Thin film resistors are often an excellent solution for analog design problems where space is limited and high packing density is required. Due to their Tantalum Nitride resistive layer these resistors are stable 0.07 % (2000 h, rated power at +70 °C) and moisture resistant.

SCHEMATIC AND PATTERN

DESIGN SUPPORT TOOLS





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	

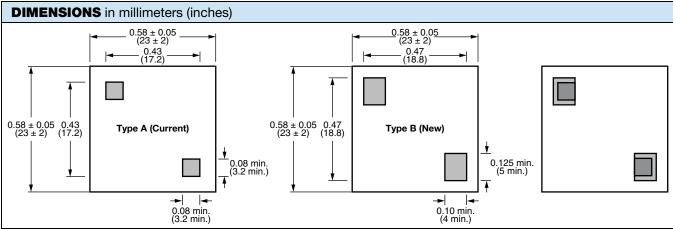
Note

Models Available

(1) On request

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

MECHANICAL SPECIFICATIONS				
Resistive element	Tantalum Nitride			
Passivation	Tantalum Pentoxide (Autopassivation)			
Substrate material	Standard Silicon			
Bonding pads	Aluminum			

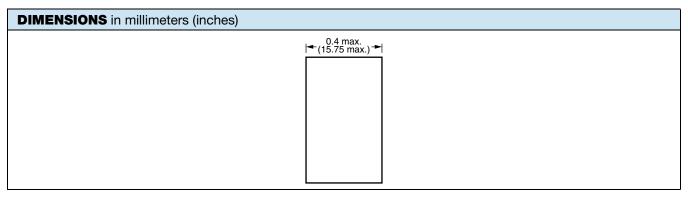


Note

Revision: 25-Jan-18

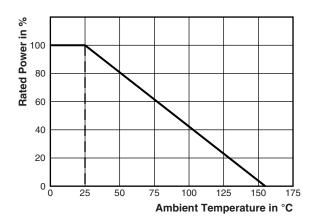
Customer can get one or the other part, but positions of pads are similar

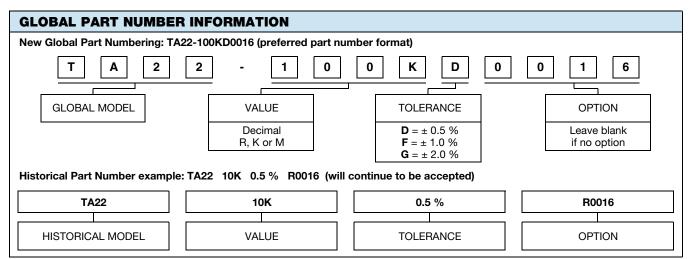




TECHNICAL SPECIFICATIONS						
TEST	SPECIFICATIONS	CONDITIONS				
MATERIAL	TANTALUM NITRIDE					
Power dissipation	100 mW at 25 °C, 50 mW at +70 °C, 25 mW at +125 °C					
Stability	± 0.07 % typical, ± 0.1 maximum	2000 h at +70 °C at Pn				
Voltage coefficient	< 0.1 ppm/V					
Noise	< -35 dB typical	MIL-STD-202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

DERATING







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