



Wirebondable Dual Value Thin Film Chip Resistor Networks, Center Tap



Actual Size

These tantalum chips combine excellent stability 0.07 % (2000 h, rated power at + 70 °C) with great power handling capacity. Two bonding pads per termination allow greater flexibility in hybrid layout design.

FEATURES

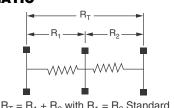
- Center tap feature
- Resistor material: Self-passivating Tantalum nitride
- Silicon substrate for good power dissipation
- Wirebondable
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT GREEN

(5-2008)

SCHEMATIC



STANDARD ELECTRICAL SPECIFICATIONS							
MODEL	SIZE	RESISTANCE RANGE ⁽¹⁾ Ω	POWER RATING P _{70 °C} W	ABSOLUTE TOLERANCE ± %	RATIO TOLERANCE ± %	ABSOLUTE TCR ⁽²⁾ ± ppm/°C	RATIO TCR ± ppm/°C
TA 33	0303	50 to 1M	0.125	0.5, 1, 2	0.1, 0.5	50, 100	5

Notes

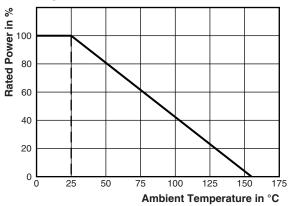
(1) $(R_T = R_1 + R_2)$

 $^{(2)}$ ± 100 ppm/°C, ± 50 ppm/°C on request at - 55 °C to + 155 °C

PERFORMANCES					
TEST	SPECIFICATIONS	CONDITIONS			
Ohmic value: Ratio	1/1 standard (unequal values: please consult)				
Stability	± 0.07 % typical, ± 0.1 maximum	2000 h at + 70 °C under Pn			
Limiting voltage	50 V _{DC} on R _T				
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			

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

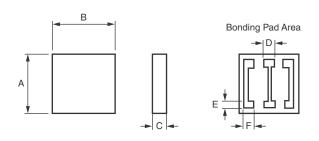
DERATING





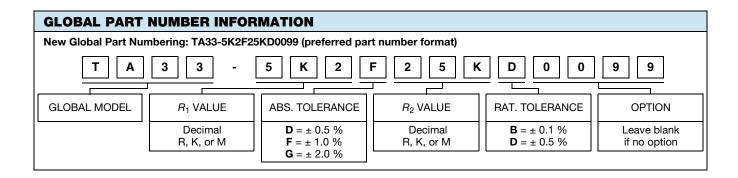
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DIMENSIONS



DIMENSION	INCHES	MILLIMETERS
Α	0.033 ± 0.004	0.855 ± 0.10
В	0.033 ± 0.004	0.855 ± 0.10
С	0.01 to 0.015	0.25 to 0.40
D	0.006	0.15
Е	0.004	0.10
F	0.006	0.15

MECHANICAL SPECIFICATIONS				
Resistive element	Tantalum nitride			
Substrate material	Silicon			
Passivation	Selfpassivation			
Bonding pads	Aluminum, gold on request			





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