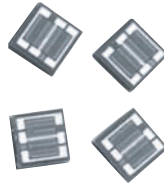




Wirebondable Dual Value Thin Film Chip Resistor Networks, Center Tap



Actual Size

LINKS TO ADDITIONAL RESOURCES



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.

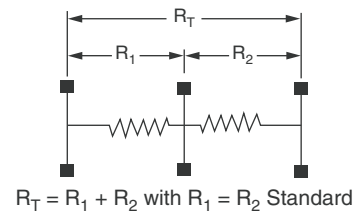
FEATURES

- 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



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

SCHEMATIC



STANDARD ELECTRICAL SPECIFICATIONS

MODEL	SIZE	RESISTANCE RANGE ⁽¹⁾ Ω	POWER RATING $P_{70\text{ °C}}$ 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

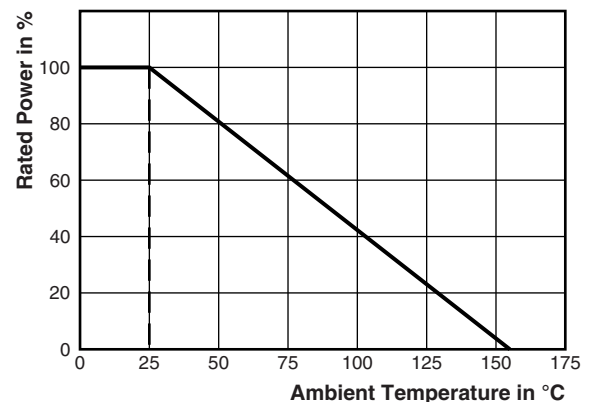
PERFORMANCES

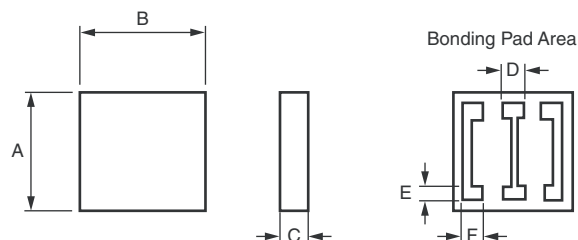
TEST	SPECIFICATIONS	CONDITIONS
Ohmic value: Ratio	1/1 standard (unequal values: please consult)	
Stability	± 0.07 % typical, ± 0.1 maximum	2000 h at +70 °C under Pn
Limiting voltage	50 V _{DC} on R_T	
Noise	< -35 dB typical	MIL-STD-202 method 308
Thermal EMF	0.01 μV/°C	
Shelf life stability	100 ppm	1 year at +25 °C

CLIMATIC SPECIFICATIONS

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

DERATING



**DIMENSIONS**

DIMENSION	INCHES	MILLIMETERS
A	0.033 ± 0.004	0.855 ± 0.10
B	0.033 ± 0.004	0.855 ± 0.10
C	0.01 to 0.015	0.25 to 0.40
D	0.006	0.15
E	0.004	0.10
F	0.006	0.15

MECHANICAL SPECIFICATIONS

Resistive element	Tantalum nitride
Substrate material	Silicon
Passivation	Self passivation
Bonding pads	Aluminum, gold on request

GLOBAL PART NUMBER INFORMATION

New Global Part Numbering: TA33-5K2F25KD0099 (preferred part number format)

T	A	3	3	-	5	K	2	F	2	5	K	D	0	0	9	9
GLOBAL MODEL					R ₁ VALUE		ABS. TOLERANCE			R ₂ VALUE		RAT. TOLERANCE		OPTION		
					Decimal R, K, or M		D = ± 0.5 % F = ± 1.0 % G = ± 2.0 %			Decimal R, K, or M		B = ± 0.1 % D = ± 0.5 %		Leave blank if no option		



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