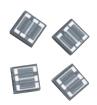




Wirebondable Dual Value Thin Film Chip Resistor Networks, Center Tap (High Ohmic Value)



M Actual Size

LINKS TO ADDITIONAL RESOURCES



Chromium silicon thin film is very well suited to produce high density and high ohmic value resistor chips. Performances and sizes are greatly improved compared to thick film counterparts. The center tap configuration offers a greater flexibility for hybrid layout design.

FEATURES

- · Center tap feature
- Small size 30 mil x 30 mil
- Very high ohmic values (up to 10 $\text{M}\Omega)$
- Aluminum terminations
- Wirebondable
- Good stability 0.1 % (2000 h, rated power, at +70 °C)
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

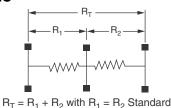


ROHS

HALOGEN FREE

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
CS 33	0303	10K to 10M	0.125	0.5, 1, 2	0.5, no	50, 100	5

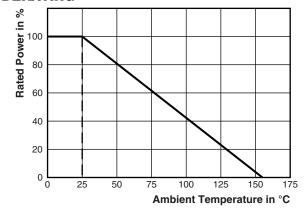
Notes

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

 \pm 100 ppm/°C, \pm 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	± 0.1 % typical, ± 0.2 maximum	2000 h at +70 °C under Pn			
Voltage coefficient	0.1 ppm/V				
Limiting voltage	100 V _{DC} on R _T				
Noise	< -20 dB typical	MIL-STD-202 method 308			
Thermal EMF	< 0.01 μV/°C				
Shelf life stability	200 ppm	1 year at +25 °C			

DERATING

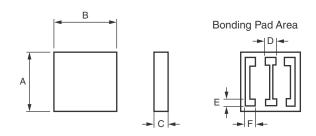


CLIMATIC SPECIFICATIONS				
Operating temperature range	-55 °C to +155 °C			
Storage temperature range	-55 °C to +155 °C			



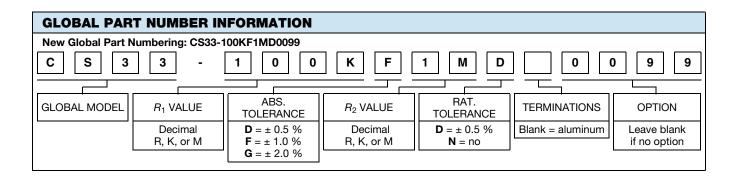
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DIMENSIONS



DIMENSION	INCHES	MILLIMETERS	
А	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	Chromium silicon			
Passivation	Silicone nitride			
Substrate material	Silicon (consult Vishay for Al ₂ O ₃)			
Bonding pads	Aluminum			





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