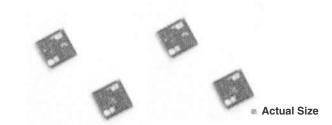


RoHS

COMPLIANT

GREEN (5-2008)*

Single Value Chip Resistor



Chromium silicon thin film is very well suited to produce high density and high ohmic value resistor chips. These high ohmic value chip resistors are available with improved performances and size when compared to thick film counterparts.

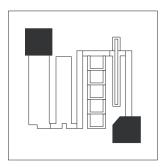
SCHEMATIC AND PATTERN

FEATURES

- Small size 20 mil x 20 mil
- Very high ohmic value up to 10 $M\Omega$
- Good stability 0.1 % (2000 h, rated power at + 70 °C)
- Wirebondable

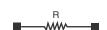
TYPICAL PERFORMANCE

	ABS	
TCR	100 ppm/°C	
TOL.	0.5 %	



STANDARD ELECTRICAL SPECIFICATIONS				
EST SPECIFICATIONS		CONDITIONS		
MATERIAL	PASSIVATED CHROMIUM SILICON			
Resistance range	Resistance range 10 kΩ to 10 MΩ			
Absolute TCR	± 100 ppm/°C (± 50 ppm/°C on request)	- 55 °C to + 155 °C		
Absolute tolerance	± 0.5 %, ± 1 %, ± 2 %			
Power dissipation	100 mW at + 25 °C, 50 mW at + 70 °C, 25 mW at + 125 °C			
Stability	± 0.1 % typical, ± 0.2 maximum	2000 h at + 70 °C at Pn		
Working voltage	Vorking voltage 100 V _{DC}			
Operating temperature range - 55 °C to + 155 °C				
Storage temperature range - 55 °C to + 155 °C				
Noise	e < - 20 dB typical			
Thermal EMF < 0.01 μV/°C				
Shelf life stability 200 ppm		1 year at + 25 °C		

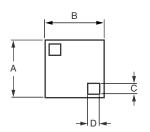
* Please see document "Vishay Green and Halogen-Free Definitions (5-2008)" http://www.vishay.com/doc?99902





Vishay Sfernice

DIMENSIONS



E	

DIMENSION	INCHES	MILLIMETERS	
А	0.021 ± 0.002 0.55 ± 0.10		
В	0.021 ± 0.002	0.55 ± 0.10	
С	0.004	0.10	
D	0.004	0.10	
E	0.015	0.40 maximum	

MECHANICAL SPECIFICATIONS			
Resistive element	Chromium Silicon		
Passivation	Silicon Nitride		
Substrate material	Silicon (consult Vishay for Al ₂ O ₃)		
Bonding pads	Aluminum		

GLOBAL PART NUMBER INFORMATION						
New Global Part Numbering: CS22-100KD0016 (preferred part number format)						
C S 2	2 - 1 0	<u>о к</u> <u>р</u> о	0 1 6			
GLOBAL MODEL	VALUE	TOLERANCE	OPTION			
	Decimal R, K or M		leave blank if no option			
Historical Part Number example: CS22 150K 0.5 % R0016 (will continue to be accepted)						
CS22	150K	0.5 %	R0016			
HISTORICAL MODEL	VALUE	TOLERANCE	OPTION			



Vishay

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