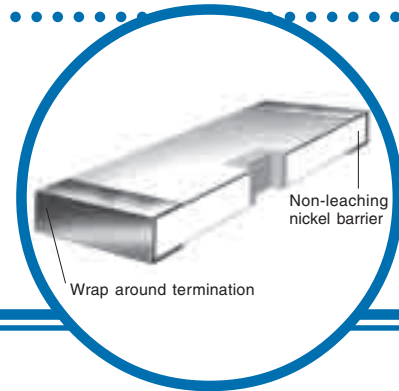


High Range Precision Chip Voltage Divider

PFC-CR Divider Series

- New CHROMAXX™ Film System
- Superior to matched discretes
- Popular 1206 Chip Size
- 1KΩ - 1MΩ per resistor



IRC is now offering a new high-resistance voltage divider solution. Using similar construction to IRC's PFC Divider, the new PFC-CR Divider series provides a single package solution with high resistance differential capability combined with excellent stability and tracking. The 1206 size chip has a very small footprint and is compatible with your automatic placement equipment. The ratio tolerance can be specified down to 0.1% with TCR tracking capabilities to $\pm 5\text{ppm}/^\circ\text{C}$.

This dual element, monolithic package offers the advantages of reducing component quantities and board space while increasing quality and reliability.

For a precision voltage divider network in a small package solution, specify IRC CHROMAXX™ PFC Dividers.

Electrical Data

Characteristic	Each Resistor	Package
Resistance Range	1.0KΩ - 1.0MΩ	1.5MΩ
Power Rating	125mW	250mW
Absolute Tolerance	to $\pm 1\%$	
Ratio Tolerance	to $\pm 0.1\%$	
Absolute TCR	to $\pm 50\text{ppm}/^\circ\text{C}$	
Tracking TCR	to $\pm 5\text{ppm}/^\circ\text{C}$	
Maximum Voltage Rating	100V	
Operating Temperature Range	-65°C to $+125^\circ\text{C}$	
Termination	solder plated over nickel barrier	

Environmental Data

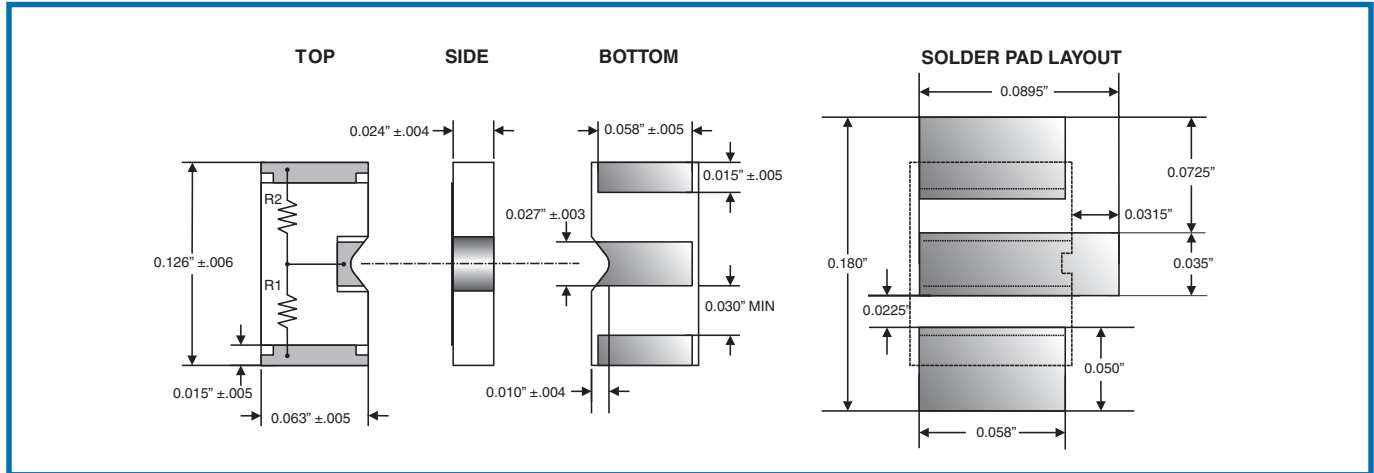
Performance Test (per MIL-PRF-55342)	$\Delta R/R$	ΔRatio
Thermal Shock (5 cycles, -65°C to $+125^\circ\text{C}$)	$\pm 0.02\%$	$\pm 0.005\%$
Short Time Overload	$\pm 0.02\%$	$\pm 0.005\%$
High Temperature Exposure	$\pm 0.03\%$	$\pm 0.01\%$
Resistance to Bond Exposure	$\pm 0.02\%$	$\pm 0.01\%$
Moisture Resistance (10 cycles, 240 hours)	$\pm 0.1\%$	$\pm 0.05\%$
Load Life (Rated Power) (70°C , 1000 hours)	$\pm 0.1\%$	$\pm 0.05\%$
Low Temperature Operation	$\pm 0.01\%$	$\pm 0.005\%$

General Note

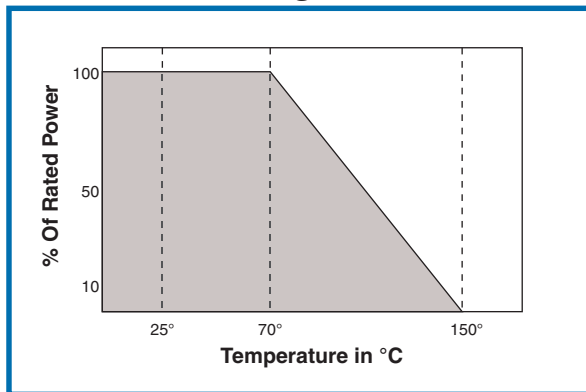
IRC reserves the right to make changes in product specification without notice or liability. All information is subject to IRC's own data and is considered accurate at time of going to print.

High Range Precision Chip Voltage Divider

Physical Data (Inches):



Power Derating Data



Ordering Data

Prefix	PFC	D1206CR	01	1005	5003	F	B
Model	D1206CR						
TCR Code	01 = ±100ppm/°C; 02 = ±50ppm/°C						
R1 Resistance Code	4-digit resistance code. Ex: 1001 = 1KΩ; 1504 = 1.5MΩ						
R2 Resistance Code	4-digit resistance code. Ex: 1001 = 1KΩ; 1504 = 1.5MΩ						
Absolute Tolerance	J = ±5%; G = ±2%; F = ±1%						
Ratio Tolerance	G = ±2%; F = ±1%; D = ±0.5%; B = ±0.1%						

For additional information or to discuss your specific requirements, please contact our Applications Team using the contact details below.

Packaging Data

