



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



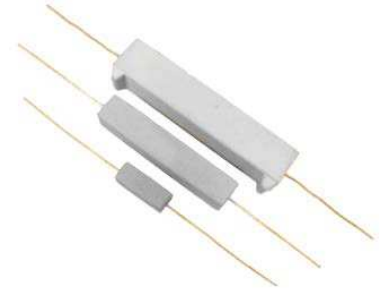
WCB/WCBF/NWCB Series

Welded Ceramic Housed Axial Leaded Wirewound Resistor

Stackpole Electronics, Inc.

Resistive Product Solutions

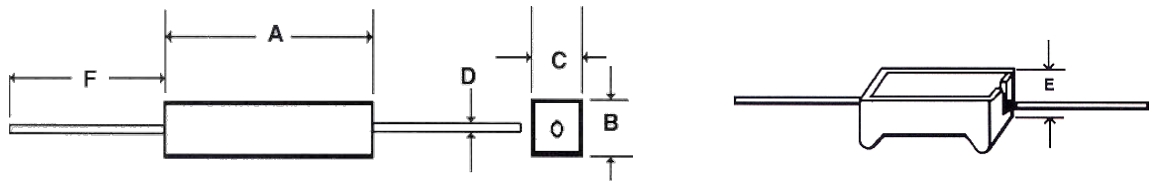
- Features:
- Welded element on ceramic core
 - Low noise, high reliability compared to fiberglass core wirewounds
 - Fireproof power wirewound
 - High thermal conductivity
 - NWCB – Non-inductively Ayrton Perry winding
 - Body standoffs available; add “F” after WCB
 - RoHS compliant / lead-free



Electrical Specifications

Type / Code	Power Rating (Watts) @ 70°C	TCR (ppm/°C)	Ohmic Range(Ω) and Tolerance		
			0.5%	1%	5%
WCB5, WCBF5	5W	0.1Ω to 10Ω = ±50ppm/°C >10Ω = ±20ppm/°C	1 - 10K	0.1 - 10K	
WCB7, WCBF7	7W		1 - 15K	0.1 - 15K	
WCB10, WCBF10	10W		1 - 20K	0.1 - 20K	
WCB15, WCBF15	15W		1 - 20K	0.1 - 20K	
WCB20, WCBF20	20W		1 - 20K	0.1 - 20K	
WCB25, WCBF25	25W		1 - 20K	0.1 - 20K	
NWCB5	5W		-	0.1 - 4.7K	
NWCB7	7W		-	0.1 - 7.5K	
NWCB10	10W		-	0.1 - 10K	
NWCB15	15W		-	0.1 - 10K	
NWCB20	20W		-	0.1 - 10K	
NWCB25	25W		-	0.1 - 10K	

Mechanical Specifications

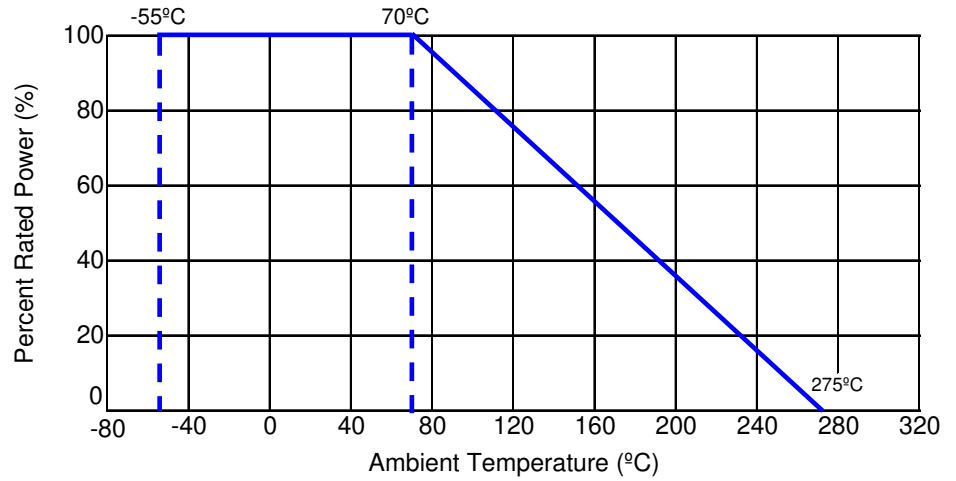


Type / Code	A Body Length	B Height	C Width	D Lead Diameter	E (WCBF only) Standoff Height	F Lead Length	Unit
WCB5, WCBF5, NWCB5	0.875 ± 0.039 22.23 ± 0.99	0.375 ± 0.039 9.53 ± 0.99	0.375 ± 0.039 9.53 ± 0.99	0.036 ± 0.002 0.91 ± 0.05	0.437 ± 0.039 11.10 ± 0.99	1.500 ± 0.250 38.10 ± 6.35	inches mm
WCB7, WCBF7, NWCB7	1.400 ± 0.039 35.56 ± 0.99	0.375 ± 0.039 9.53 ± 0.99	0.375 ± 0.039 9.53 ± 0.99	0.036 ± 0.002 0.91 ± 0.05	0.500 ± 0.039 12.70 ± 0.99	1.500 ± 0.250 38.10 ± 6.35	inches mm
WCB10, WCBF10, NWCB10	1.875 ± 0.039 47.63 ± 0.99	0.375 ± 0.039 9.53 ± 0.99	0.375 ± 0.039 9.53 ± 0.99	0.036 ± 0.002 0.91 ± 0.05	0.500 ± 0.039 12.70 ± 0.99	1.500 ± 0.250 38.10 ± 6.35	inches mm
WCB15, WCBF15, NWCB15	1.875 ± 0.039 47.63 ± 0.99	0.500 ± 0.039 12.70 ± 0.99	0.500 ± 0.039 12.70 ± 0.99	0.036 ± 0.002 0.91 ± 0.05	0.625 ± 0.039 15.88 ± 0.99	1.500 ± 0.250 38.10 ± 6.35	inches mm
WCB20, WCBF20, NWCB20	2.500 ± 0.039 63.50 ± 0.99	0.500 ± 0.039 12.70 ± 0.99	0.500 ± 0.039 12.70 ± 0.99	0.036 ± 0.002 0.91 ± 0.05	0.625 ± 0.039 15.88 ± 0.99	1.500 ± 0.250 38.10 ± 6.35	inches mm
WCB25, WCBF25, NWCB25	2.500 ± 0.039 63.50 ± 0.99	0.500 ± 0.039 12.70 ± 0.99	0.500 ± 0.039 12.70 ± 0.99	0.036 ± 0.002 0.91 ± 0.05	0.625 ± 0.039 15.88 ± 0.99	1.500 ± 0.250 38.10 ± 6.35	inches mm

Performance Characteristics	
Test	Test Results
Moisture Resistance	± 5%
Thermal Shock	± 2%
Load Life @ 70°C - 1,000 hrs.	± 5%
Resistance to Soldering Heat	± 2%
Short Time Overload - 5xPn for 5sec	± 2%
Dielectric Withstanding Voltage	± 2%

Operating Temperature Range: -55°C to +275°C

Power Derating Curve:



How to Order

1 2 3 4 5 6 7 8 9 10
W C B 5 J B 1 0 0 R

Product Series		Code	Power	Tolerance		Packaging				Resistance Value		
WCB	Standard	5	5W	Code	Tol	B	Bulk	Code	Description	Size	Quantity	Four characters with the multiplier used as the decimal holder. 0.1 ohm = R100 33 ohm = 33R0 3.32 Kohm = 3K32
WCBF	With standoff	7	7W	D	0.5%			5	500			
NWCB	Non-inductive	10	10W	F	1%			7, 10	250			
		15	15W	J	5%			15	200			
		20	20W					20	200			
		25	25W			25	200					