

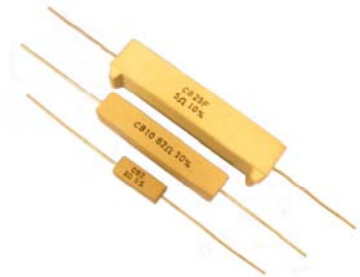
# CB Series

Ceramic Housed Wirewound with Axial Leads

Stackpole Electronics, Inc.

Resistive Product Solutions

- Features:
- ✓ Fireproof power wirewound
  - ✓ High thermal conductivity
  - ✓ Different element(resistor) available: precision / ceramic & metal oxide
  - ✓ Non-inductive styles available
  - ✓ Body standoffs available; add "F" after CB
  - ✓ RoHS compliant / lead-free



Electrical Specifications					
Type / Code	Power Rating (Watts) @ 70°C	Ohmic Range and Tolerance			
		0.5%	1%	5%	10%
CB 2	2W	-	-	0.1Ω - 300Ω	0.1Ω - 300Ω
CB 3	3W	-	-	0.1Ω - 680Ω	0.1Ω - 680Ω
CB 5	5W	-	-	0.1Ω - 680Ω	0.1Ω - 680Ω
CB 7	7W	-	-	0.1Ω - 1.5KΩ	0.1Ω - 1.5KΩ
CB 10	10W	-	-	0.1Ω - 2KΩ	0.1Ω - 2KΩ
CB 15	15W	-	-	0.15Ω - 2KΩ	0.15Ω - 2KΩ
CB 20	20W	-	-	0.2Ω - 2KΩ	0.2Ω - 2KΩ
CB 22	22W	-	-	1Ω - 250Ω	1Ω - 250Ω
CB 25	25W	-	-	0.2Ω - 2KΩ	0.2Ω - 2KΩ
CB 30	30W	-	-	1Ω - 250Ω	1Ω - 250Ω
WCB 2	2W	1Ω - 5KΩ	1Ω - 5KΩ	1Ω - 5KΩ	-
WCB 3	3W	1Ω - 10KΩ	1Ω - 10KΩ	1Ω - 10KΩ	-
WCB 5	5W	1Ω - 10KΩ	1Ω - 10KΩ	1Ω - 10KΩ	-
WCB 7	7W	1Ω - 15KΩ	1Ω - 15KΩ	1Ω - 15KΩ	-
WCB 10	10W	1Ω - 20KΩ	1Ω - 20KΩ	1Ω - 20KΩ	-
WCB 15	15W	1Ω - 20KΩ	1Ω - 20KΩ	1Ω - 20KΩ	-
MCB 3	3W	-	-	1Ω - 500KΩ	-
MCB 5	5W	-	-	1Ω - 500KΩ	-
MCB 7	7W	-	-	1Ω - 500KΩ	-

Resistance Temperature Coefficient Standard:

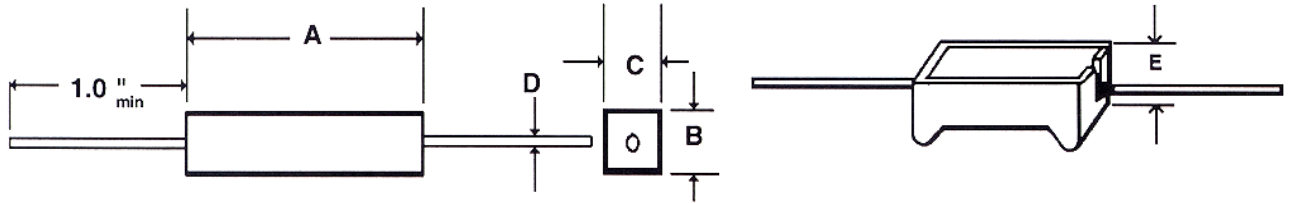
CB series: ±800ppm below 1Ω & ±300ppm for 1Ω and above;

WCB series: ±50ppm from 1Ω to 10Ω & ±20ppm above 10Ω;

MCB series: ±200ppm

## How to Order

SEI Type		Code	Nominal Resistance	Tolerance	Packaging			
<b>CB</b>		<b>1/2</b>	<b>100</b>	<b>5%</b>	<b>R</b>			
Code	Description	Code		Tolerance	SEI Types	Pkg Qty	Description	Code
CB	Standard	2	3	1%	CB 2, CB 3, CB 5, MCB 3, MCB 5	750	Bulk	B
WCB		5	7	1%	WCB 2, WCB 3, WCB 5	500		
MCB		10	15	5%	CB 7, CB 10, CB 15, WCB 7, WCB 10, WCB 15, MCB 7	250		
CBF	20	22	10%	CB 20, CB 22, CB 25, CB 30	100			
WCBF	With standoff	25	30					
MCBF								
NWCB	Non inductive							
NWCBF	Non inductive with standoff							



Mechanical Specifications						
Type / Code	A	B	C	D	E	Units
Tolerance	±0.039	±0.039	±0.039	±0.002	±0.031	inches
	±1	±1	±1	±0.05	±0.8	mm
CB 2	0.709	0.276	0.276	0.025	0.300	inches
	18.0	7.0	7.0	0.7	7.6	mm
CB 3	0.866	0.312	0.312	0.032	0.375	inches
	22.0	8.0	8.0	0.8	9.5	mm
CB 5	0.866	0.394	0.394	0.032	0.437	inches
	22.0	10.0	10.0	0.8	11.1	mm
CB 7	1.378	0.394	0.394	0.032	0.500	inches
	35.0	10.0	10.0	0.8	12.7	mm
CB 10	1.890	0.394	0.394	0.032	0.500	inches
	48.0	10.0	10.0	0.8	12.7	mm
CB 15	1.890	0.492	0.492	0.032	0.625	inches
	48.0	12.5	12.5	0.8	15.9	mm
CB 20	2.362	0.571	0.531	0.032	0.625	inches
	60.0	14.5	13.5	0.8	15.9	mm
CB 22	2.500	0.500	0.500	0.036	0.625	inches
	63.5	12.7	12.7	0.9	15.9	mm
CB 25	2.362	0.571	0.531	0.032	0.625	inches
	60.0	14.5	13.5	0.8	15.9	mm
CB 30	2.500	0.625	0.625	0.036	-	inches
	63.5	15.9	15.9	0.9		mm
WCB 2	0.700	0.245	0.255	0.032	0.300	inches
	17.8	6.2	6.5	0.8	7.6	mm
WCB 3 / MCB 3	0.875	0.312	0.312	0.032	0.375	inches
	22.2	7.9	7.9	0.8	9.5	mm
WCB 5 / MCB 5	0.875	0.375	0.375	0.032	0.437	inches
	22.2	9.5	9.5	0.8	11.1	mm
WCB 7 / MCB 7	1.400	0.375	0.375	0.036	0.500	inches
	35.6	9.5	9.5	0.9	12.7	mm
WCB 10	1.875	0.375	0.375	0.036	0.500	inches
	47.6	9.5	9.5	0.9	12.7	mm
WCB 15	1.875	0.500	0.500	0.036	0.625	inches
	47.6	12.7	12.7	0.9	15.9	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