

# Type SBC (Square Ceramic) Series

### **Key Features**

- Up to 17 Watts
- **Fusible Styles**
- Vertical or Axial
- **■** Non Flammable
- Special Solvent Resistance
- Customer Specials Invited
- Widely Available from Distribution



This range of Power Wirewound Resistors are wound on continuous glass fibre elements or have a ceramic core depending on resistance value. The element is housed in a ceramic case and sealed with an inorganic silica filler. Their construction gives a resistor with high insulation resistance and low surface temperature, capable of withstanding high overload currents. These resistors are ideally suited to a variety of applications within industrial and commercial environments, where performance and reliability are of prime importance. Applications include fan force ovens, cooker hoods, power supplies and triac based speed controls. Custom Design Variants in value and style are welcomed.

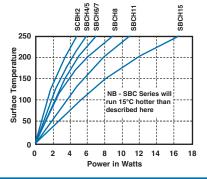
### **Characteristics - Electrical**

Resistance Values:	Series E24 5% E12 10% (see tables for value limits per style)
Resistance Tolerance:	±5% ±10%
Maximum Continuous Voltage:	√P x R
Load Life:	ΔR <±3% 1000 hours at 70°C
Power Rating:	See Surface Temperature Curve (below)

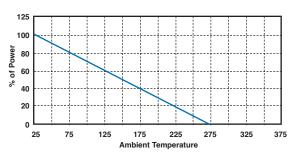
#### Characteristics - Environmental and Mechanical

Temperature Coefficient of Resistance:	200ppm/°C (400ppm/°C below 18R)
Resistance to Solder Heat:	ΔR < 0.2% (350°C for 2.5 seconds)
Voltage Coefficient of Resistance:	Negligible
Operating Temperature Range:	-55°C to +350°C
Load Stability:	ΔR < 5% (full load at 70°C for 1000 hours)
Long Term Damp Heat:	ΔR < 0.2% (21 days at 40°C for 93% humidity)
Shelf Life:	ΔR < 1.0% (per 12 months)
Insulation Resistance:	> 10000M
Dielectric Strength:	2000V RMS
Lead Material:	Steel - Solder coat
Marking:	Legend mark, Manufacturer name, type, ohmic value and tolerance.

### **Surface Temperature Rise Curve**



### **Derating Curve**





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## Type SBC - SBCH (Axial Power Resistor)

We offer three ceramic profiles for the main wattage sizes. These are for additional heat dissipation and vertical mounting of resistors. The suffix for each style is as follows:-

#### SBC Standard SBCH 4/5/6/7 SBCH 8/11/15

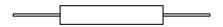






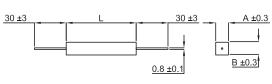
## **Type SBCHE (For Vertical Mounting)**

We offer SBCHE Styles with one lengthened lead for vertical mounting. See additional hardware on last page.



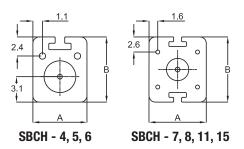
One Lead Length 20mm longer than case length. Supplied with one longer lead wrapped back in flute in ceramic.

## Type SBC - (No Flutes in Ceramic)



Model	Power	Ohmic	: Values	Dim	nensio	ons	Weight
wodei	Max	Min	Max	Α	В	L	Grams
SBC-2	4 W	R20	6K8	6.4	6.4	20	2.3
SBC-4	5 W	R30	10K	6.4	6.4	25	2.9
SBC-6	7 W	R47	22K	6.4	6.4	38	4.2
SBC-8	9 W	1R0	8K2	9	9	38	7.4
SBC-11	11 W	1R0	22K	9	9	50	10.8
SBC-15	17 W	1R0	22K	9	9	75	15.3

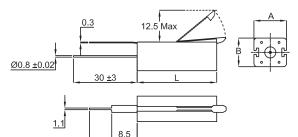
## Type SBCH - (Flutes in Ceramic)



Model	Power	Ohmic	Values	Dir	nensi	ons	Weight
wodei	Max	Min	Max	Α	В	L	Grams
SBCH-4	4 W	R20	6K8	7	8	20	2.2
SBCH-5	5 W	R30	10K	7	8	25	3.5
SBCH-6	7 W	R47	22K	7	8	38	5.0
SBCH-7	7 W	R33	10K	9	10	25	6.0
SBCH-8	9 W	1R0	8K2	9	10	38	8.0
SBCH-11	11 W	1R0	22K	9	10	50	10.0
SBCH-15	17 W	1R0	22K	9	10	75	15.0

L = Length of Ceramic Section

## Type SBCLF - (Externally Fused Style)



Model	Power	Ohmic	Values	Dimensions					
Wodei	Max	Min	Max	Α	В	L			
SBCLF-4	4 W	2R2	2K2	10	9	25			
SBCLF-5	5.5 W	2R2	5K6	10	9	38			
SBCLF-7	7 W	3R3	8K2	10	9	50			
SBCLF-10	10 W	4R7	12K	10	9	75			
							1		

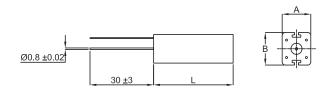
Solder for fuse is SnPb 60:40

15



# **Type SBC (Square Ceramic) Series**

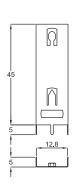
## **Type SBCV - (Vertical Mount Style)**



Model	Power	Ohmic	Di	Dimensions		
Model	Max	Min	Max	Α	В	L
SBCV-6	7 W	R47	22K	9	10	25
SBCV-8	9 W	1R0	8K2	9	10	38
SBCV-11	11 W	1R0	22K	9	10	50
SBCV-15	17 W	1R0	22K	9	10	75

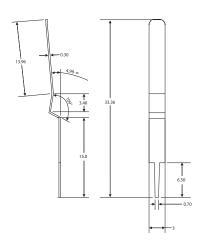
Lead drawn through hole in ceramic

#### **Accessories**



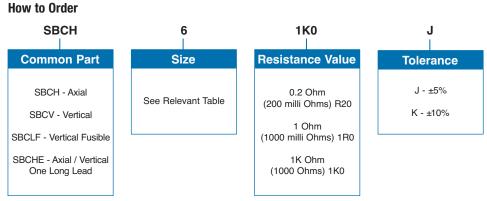
This device is used with models SBCV.

Order LC1 Support.



These can be used with SBCH/SBCV models.

Order BCV Support Pillar.



N.B. All resistors are supplied with arklone proof seal

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75822-2K4 90J56R PW10-39R-5% ALSR1-20 EP3WS47RJ RWR81S12R4FRB12 RWR81SR511FRB12 RWR81SR619FRBSL
RWR89S9310FPB12 27J1K0 93J62RE AC10000002208JAB00 1HJ-25 FSQ5WR47J 25J39K 25J5R0-B 25W1D0 272-303-JBW 280PRM5-150-RC CP0005270R0JE1491 CPCC0510R00JE32 CPCC051R000JB31 CPW052K500JE143 CPW05700R0JE143 C1010RJL
CA000210R00JE14 VPR5F1500 RS02B887R0FE73 RWR74SR604FRB12 RWR84S1001FRB12 RWR84S20R0FSBSL
RWR89S6190FSB12 CPW055R000JB143 ULW5-39R0JT075 W31-R47JA1 VP25K-120 VC3D900 ULW5-68RJT075 65888-3R3
RWR81S4R22FRB12 CPW151K500JE313 RWR80N3400FSB12 RWR81S1000FRB12 RWR81S1000FSB12 RWR89S6R81FRB12
RWR89N30R1FRB12 RWR81S4R99FPB12 RWR74S4R02FRRSL WW1JT33R0 VC3D.5