

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.

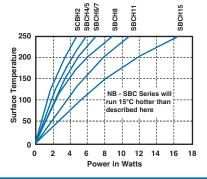
Characteristics - Electrical

| 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) |

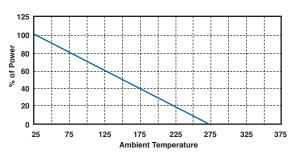
Characteristics - Environmental and Mechanical

| 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

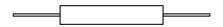






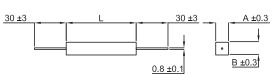
Type SBCHE (For Vertical Mounting)

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



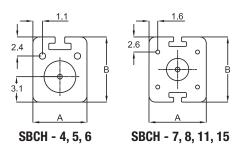
One Lead Length 20mm longer than case length. Supplied with one longer lead wrapped back in flute in ceramic.

Type SBC - (No Flutes in Ceramic)



| Model | Power | Ohmic | : Values | Dim | ensio | 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 |

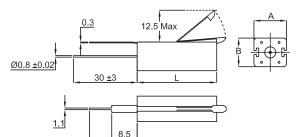
Type SBCH - (Flutes in Ceramic)



| Model | Power | Ohmic | Ohmic Values | | Ohmic Values Dimension | | 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 | 5 8 0 |
| | | | | | | | | 1 |

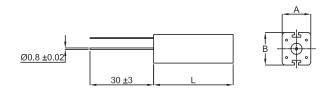
Solder for fuse is SnPb 60:40

15



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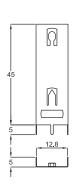
Type SBCV - (Vertical Mount Style)



| Model | Power | Ohmic Values | | | Dimensions | | | |
|---------|-------|--------------|-----|---|------------|----|----|--|
| wodei | Max | Min | Max | F | 1 | В | L | |
| SBCV-6 | 7 W | R47 | 22K | ç |) | 10 | 25 | |
| SBCV-8 | 9 W | 1R0 | 8K2 | 9 |) | 10 | 38 | |
| SBCV-11 | 11 W | 1R0 | 22K | ç |) | 10 | 50 | |
| SBCV-15 | 17 W | 1R0 | 22K | ç |) | 10 | 75 | |

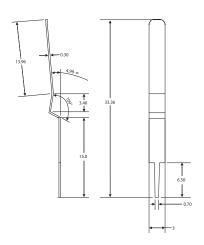
Lead drawn through hole in ceramic

Accessories



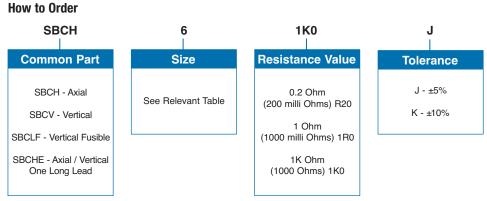
This device is used with models SBCV.

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 AC03000001208JAC00 EP3WS47RJ C1010KJL C1015RJL C3A10KJT 27J1K0 ES3W47RJ AC04000001500JAC00 AC10000002208JAB00 AC10000004708JAB00 SQMW5R39J SQPW5R22J SQPW5R33J 1879927-3 FCB2100RJ T505 FSQ5WR47J FW10A33R0JA C1010RJL C10220RJL C10R47JL C141K0JL C144R7JL ES05W100RJ SQMW1047RJ SQMW210RJ ULW5-39R0JT075 ULW5-68RJT075 SQBW401K0JFASTON SPH1001JLF 65888-3R3 SQP500JB-400R SQBW403R3JFASTON 280-PRM7-4.7-RC CW02B9R100JE73 FW70A1000JA AC05000005608JAC00 SQPW547RJ SQMW10R68J C102K2JL SQPW510RJ PW103001KLF SQPW522RJ SQPW568RJ FCB4560RJ FCB2R47J SQPW2R047J WA8505-47RJI