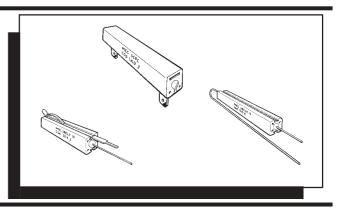
## **MEGGITT CGS**

HIGH VOLTAGE RESISTORS
HIGH VALUE RESISTORS
HIGH POWER RESISTORS
ALUMINIUM CLAD RESISTORS
CURRENT SENSE RESISTORS

# High Power Resistor

## TYPE SBC (SQUARE CERAMIC) SERIES



This range of Power Wirewound Resistors are wound on continuous glass fibre elements or have a ceramic core depending on resistor 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.

## MEGGITT CGS KEY FEATURES

- UP TO 17 WATTS
- FUSIBLE STYLES
- VERTICAL OR AXIAL
- NON FLAMMABLE
- SPECIAL SOLVENT RESISTANCE
- ATTRACTIVELY PRICED
- **CUSTOMER SPECIALS INVITED**
- WIDELY AVAILABLE FROM DISTRIBUTION



SALES ACTION DESK TEL: (01793 611666) FAX: (01793 611777)

EMAIL: sales@megelec.co.uk
WEB SITE: www.meggittelectronics.com

#### **SPECIFICATION** (cont...)

#### **TYPE SBC SERIES**

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#### CONSTRUCTION

A range of flame-proof wirewound resistors with excellent electrical and mechanical characteristics. The resistance wire is wound on a fibreglass or ceramic core and protected by a ceramic body. This construction combines good thermal characteristics with high insulation resistance, and gives good physical protection. Lead length allows vertical or horizontal mounting.

#### **ELECTRICAL**

Resistance Values: Series E24 5% E12 10% (see tables for value limits per style)

Resistance Tolerance:  $\pm 5\% \pm 10\%$ Maximum Continuous Voltage:  $\sqrt{P \times R}$ 

Load Life:  $\pm 3\%$  1000 hours at 70°C

Power Rating: See Surface Temperature Curve (below)

#### ENVIRONMENTAL & MECHANICAL

Temperature Coefficient of Resistance: 200ppm/°C (400ppm/°C below 18R)
Resistance Change due to Solder Heat: Less than 0.2% (350°C for 2.5 seconds)

Voltage Coefficient of Resistance: Negligible
Temperature Range: 0°C to 70°C

Load Stability: Less than 5% (full load at 70°C for 1000 hours)
Long Term Damp Heat: Less than 0.2% (21 days at 40°C for 93% humidity)

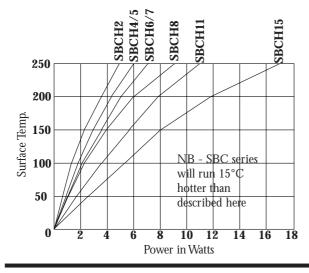
Shelf Life: Less than 1.0% (per 12 months)

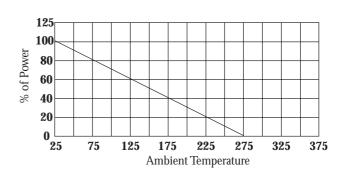
Insulation Resistance: Greater than 10<sup>4</sup>M Dielectric Strength: 2000V RMS Lead Material: Steel - Solder coat

Marking: Legend mark, Manufacturer name, type, ohmic value and tolerance.

#### SURFACE TEMPERATURE RISE CURVE

#### POWER DERATING CURVE





#### 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



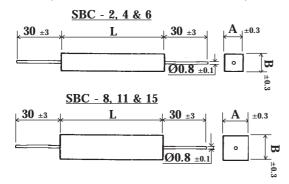
#### TYPE SBCHE (For Vertical Mounting)

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



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

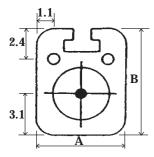
## TYPE SBC - (NO FLUTES IN CERAMIC)

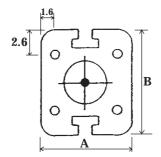


Model	Power		Ohmic Values		nensi	Weight	
iviodei	Max.	Min.	Max.	A	A B		grams
SBC-2	2 W	0R2	150R	6.4	6.4	20	2.3
SBC-4	4 W	0R3	3K3	6.4	6.4	25	2.9
SBC-6	6W	1R0	8K2	6.4	6.4	38	4.2
SBC-8	8W	1R0	8K2	9	9	38	7.4
SBC-11	10 W	3R3	12K	9	9	50	10.8
SBC-15	15 W	4R7	18K	9	9	75	15.3

L = Length of Ceramic Section

## TYPE SBCH - (FLUTES IN CERAMIC)

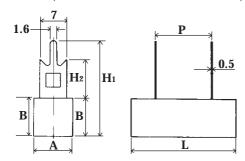




Model	Power	Ohmic Values		Dimensions			Weight
iviouei	Max.	Min.	Max.	A	В	L	grams
SBCH-4	4 W	0R2	6K8	7	8	20	2.2
SBCH-5	5 W	0R3	10K	7	8	25	3.5
SBCH-6	7 W	0R47	22K	7	8	38	5.0
SBCH-7	7 W	0R33	15K	9	10	25	6.0
SBCH-8	9 W	1R0	8K2	9	10	38	8.0
SBCH-11	11 W	1R0	22K	9	10	50	10.0
SBCH-15	17 W	1R0	22K	9	10	75	15.0

L = Length of Ceramic Section

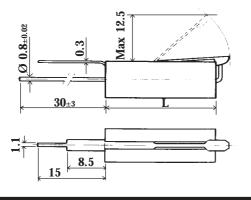
## TYPE SCPC (RADIAL PLUG-IN STYLE)

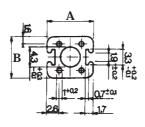


Model	Power	Ohmic Values		Dimensions ± 1mm					
Iviouei	Max.	Min.	Max.	L	Α	В	P	$H_{_1}$	$H_{2}$
SCPC-3	3W	0R1	330R	22	10	9	10	23	10
SCPC-5	5W	0R1	1K0	27	10	9	15	25	10
SCPC-7	7W	0R1	2K7	35	10	9	22.5	25	10
SCPC-10	10W	0R2	8K2	50	10	9	37	25	10
SCPC-20	20W	0R3	15K	63	13	12	49	43	25

 $L = Length \ of \ Ceramic \ Section$ 

## TYPE SBCLF (EXTERNALLY FUSED STYLE)

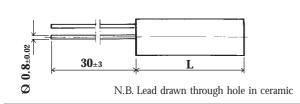


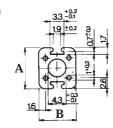


Model		Power	Ohmid	: Values	Din	nensi	ons
ı	Model	Max.	Min	Max	A	В	L
Γ	SBCLF-4	4 W	2R2	2K2	10	9	25
	SBCLF-5	5.5 W	2R2	5K6	10	9	38
	SBCLF-7	7 W	3R3	8K2	10	9	50
1	SBCLF-10	10W	4R7	12K	10	9	75

Solder for fuse is SnPb 60:40 L = Length of Ceramic

## TYPE SBCV (VERTICAL MOUNT STYLE)

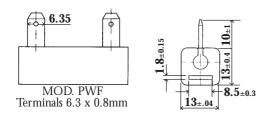




Model	Power	Ohmic Values		ver   Ohmic Values   Dime		nensi	ensions	
lviodei	Max.	Min	Max	A	В	L		
SBCV-6	7W	2.2	2K2	10	9	25		
SBCV-8	9 W	2.2	5K6	10	9	38		
SBCV-11	11 W	3.3	8K2	10	9	50		
SBCV-15	17W	4.7	12K	10	9	75		

 $L = Length \ of \ Ceramic \ Section$ 

#### TYPE SPW (HIGH POWER FASTON STYLE)



Model	Power Max	Ohmic Min.	Values Max.	<b>Di</b> r A	nensi B	ons L	Weight grams
SPW-10	10W	2R2	8K2	10	13	38	14
SPW-15	15W	3R3	10K	10	13	50	20
SPW-20	20W	4R7	15K	10	13	75	32
SPW-30	30W	6R8	18K	10	13	100	46
SPW-35	35W	8R2	22K	10	13	120	59

Spw30 Spw35 Spw35 Spw35 Spw36 Spw35 Spw36 Sp

L = Length of Ceramic Section

#### **ACCESSORIES** These can be used with This device is suitable for SPW Series. order PW7 AS ACCESSORY AT SBCH/SBCV models This device is THE SAME TIME AS RESISTORS ORDER BCV SUPPORT PILLAR used with models 1.0 0.9 SBCV. ORDER LC1 ORDER PW7 **SUPPORT** 18.5 3.5 ORDER LC1 4.0 12.41 2 **R**0 01.23 12 <u>23.5</u> **R0.2** 4.0° 38. 28 14.7 4.1 12.8 12 3.5 3.0 2.9

### **HOW TO ORDER**

SBCH	6	1K0 	<b>)</b> 
COMMON PART	POWER RATING (WATTS)	RESISTANCE VALUE	TOLERANCE
SBCH - Axial SBCV - Vertical SBCLF - Vertical fusible SBCHE - Axial one long lead SCPC - Radial with standoffs SPW - Lug type	See Relevent Table	0.1 Ohm (100 mille Ohms) R10 1 Ohm (1000 mille Ohms) 1R0 1 K Ohm (1000 Ohms) 1K0	J - 5% K - 10%

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



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