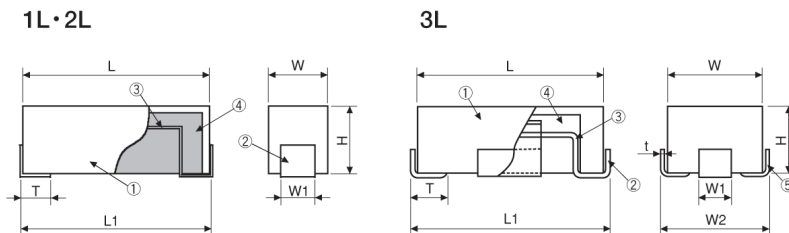


METAL PLATE CURRENT SENSING CERAMIC CASE BLR



STRUCTURE

- 1 Ceramic case
- 2 Termination electrode
- 3 Resistive element (metal plate)
- 4 Cement
- 5 Heat sink

IDENTIFICATION

PRODUCT CODE	COATING COLOR	MARKING
BLR	None (White Ceramic)	Alpha Numeric (Type, R-value, Tolerance and Manufacturer)

All these products have Pb-free terminations and meet EU-RoHS and China-RoHS requirements

TYPE DESIGNATION (HOW TO ORDER)

BLR	1L	N	TE	50L	J
PRODUCT CODE	POWER RATING	TERMINATION SURFACE MATERIAL	TAPING*	NOMINAL RESISTANCE	TOLERANCE
	1L : 1W 2L : 2W 3L : 15W	N: No surface treatment	*Please see "PACKAGING"	3 digits	J: (±5%) K: (±10%)

Contact us when you have control request for environmental hazardous material other than the substance specified by EU-RoHS

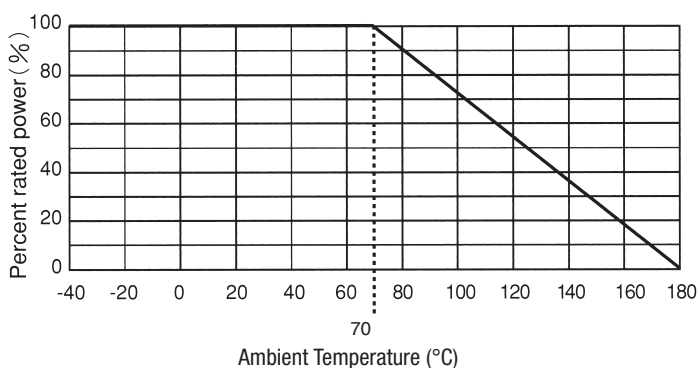
FEATURES

- Suitable to detect large current due to ultra low resistances
- Flame retardant resistor in a ceramic case
- All custom-made products
- Automatic mounting is possible
- Rated ambient temperature: +70°C
- Operating temperature range: -40°C...+180°C

DIMENSIONS (mm)

TYPE	L ± 0.5	L1 ± 1	W ± 0.5	W2 (ref.)	H ± 0.5	W1 ± 0.3	t (ref.)	T ± 1
BLR 1L	13	14	5.5	—	5.2	3	—	2.5
BLR 2L	18	19	6.3	—	6.0	3	—	3.0
BLR 3L	18	19.3	8.2	9.2	6.0	3	0.3	3.0

DERATING CURVE



RATING

TYPE	T.C.R. (ppm/K)	POWER RATING *	RESISTANCE RANGE**	RESISTANCE TOLERANCE
BLR 1L	±100	1 W	8mΩ ... 50mΩ	J (±5%) K (±10%)
BLR 2L		2 W	8mΩ ... 50mΩ	
BLR 3L		15 W***	8mΩ ... 50mΩ	

* For resistors operated at an ambient temperature of 70°C or above, the power rating shall be derated in accordance with the above "DERATING CURVE".

** Please contact us in advance about resistance values for custom-made products.

*** It is assumed to be used on aluminium circuit board.

Rated voltage = $\sqrt{\text{Power rating} \times \text{resistance value}}$

In the resistance values of 50 mΩ or under, the resistance value after soldering may change depending on the size of pad pattern or solder amount.

Make sure the effect of decline/increase of resistance value before designing.

Take care of soldering since the surface treatment is not made on the electrodes of these resistors.

Recommended flux: OX63-101F (Senju Metal Industry Co., Ltd.)