

**NEW**



## features

- High power resistors
- Uses flame-retardant insulated ceramic case
- Excellent in anti-pulse and in rush current
- Suitable for high reliable applications like automotives
- AEC-Q200 qualified.
- Products meet EU RoHS requirements



## applications and ratings

Type	Power Rating	Resistance Range (Ω) E24	
		J±5%	K±10%
BGRV15	15W	10~390	0.51~9.1
BGRV20	20W	10~390	0.51~9.1
BGRV30	30W	10~390	2.2~9.1
BGRV40	40W	10~390	2.2~9.1
BSRV15	15W	430~56K	—
BSRV20	20W	430~56K	—

Type	Power Rating	Max. Working Voltage (V)		Max. Overload Voltage (V)		T.C.R. (x10 <sup>-6</sup> /K)		Rated Ambient Temperature	Operating Temperature Range
		BSRV	BGRV	BSRV	BGRV	BSRV	BGRV		
BGRV15	15W	700	E=√P•R	1400	E=√P•R•10	±300	±250	+25°C	-40°C to +155°C
BSRV15	15W	700		1400					
BGRV20	20W	750		1500					
BSRV20	20W	750		1500					
BGRV30	30W	—		—					
BGRV40	40W	—		—					

Rated voltage= √Power Rating × Resistance value or Max. working voltage, whichever is lower.  
Please consult with us in advance about custom-made products.

## ordering information

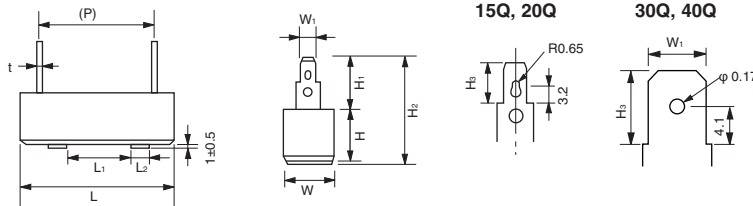
<b>BGRV</b>	<b>30</b>	<b>T</b>	<b>Q</b>	<b>100</b>	<b>J</b>
<b>Type</b>	<b>Power Rating</b>	<b>Termination<sup>1</sup> Surface Material</b>	<b>Style</b>	<b>Nominal Resistance</b>	<b>Resistance Tolerance</b>
BGRV: Wirewound (glass core) BSRV: Metal oxide film	See table	T: Sn	Q: Q style	J, K: 3 digits	J: ±5% K: ±10%

<sup>1</sup> Lead-Free plated terminal symbols.  
T (Sn): Q style

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

## dimensions and construction

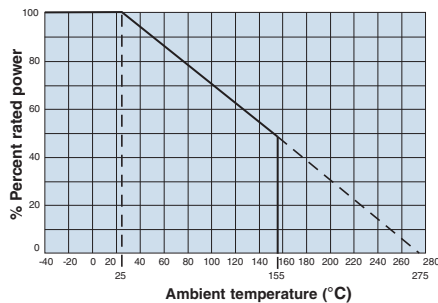
### Q Style



Type	Dimensions millimeters										
	L	L <sub>1</sub>	L <sub>2</sub>	W	W <sub>1</sub>	H	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	(P)	t
BGRV15Q, BSRV15G	48.0±1.5	25.0±1.0	7.0	12.5±1.2	4.75	12.5±1.5	12.0 <sup>+2</sup> <sub>0</sub>	25.0 <sup>+2</sup> <sub>-1</sub>	6.35	32.5	0.5
BGRV20Q, BSRV20Q	63.5±2.0									47.5	
BGRV30Q	75.0±2.5	40.0±1.2	10.0	19.0±1.5	6.3	18.0±1.5	11.0 <sup>+2</sup> <sub>0</sub>	30.0 <sup>+2</sup> <sub>-1</sub>	8.0	56	0.8
BGRV40Q	90.0±2.5									71	

Parenthesized dimensions are for reference.

### Derating Curve



## environmental applications

### Performance Characteristics

Parameter	Requirement $\Delta R \pm\%$		Test Method
	Limit	Typical	
Resistance	Within regulated tolerance	—	25°C
T.C.R.	Within specified T.C.R.	—	+25°C/-55°C and +25°C/+125°C
Resistance to Solder Heat	1%: BSRV 2%: BGRV	1.0%: BGRV 0.5%: BSRV	350°C ± 10°C for 3.5 seconds
Moisture Resistance	3%: BGRV 5%: BSRV	2.0%: BGRV 2.0%: BSRV	Power rating x 1/10, 40°C, 90 - 95% RH, 1000 hours, 1.5 hr ON, 0.5 hr OFF cycle
Endurance @ 25°C and 70°C	5%: BGRV, BSRV	2.5%: BGRV 2.5%: BSRV	Power according to the derating curve, 25°C and 70°C, 1000 hours, 1.5 hours ON/0.5 hours OFF cycle