



# Current Sensing Resistors

## Power Type Low Resistance Low Inductance Resistors - BWL Series / 低感低阻电阻

### ► Low Resistance Resistor Features

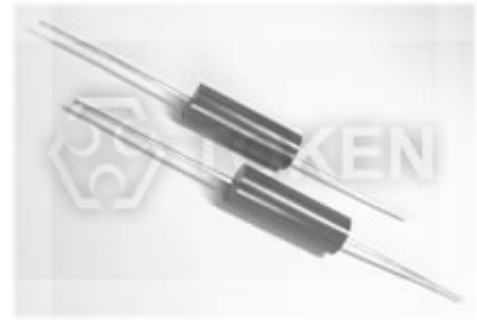
Axial Moulded Type.

Ideal for all types of current sensing applications including switching and linear power supplies, instruments and power amplifiers.

Proprietary processing technique produces extremely low resistance values.

Excellent load life stability.

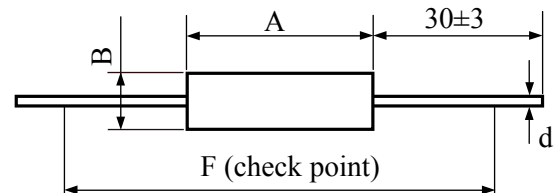
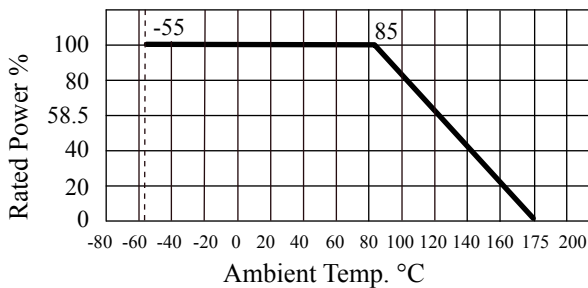
Low inductance.



### ► Low Resistance Resistor Technical Specifications

Type	Rated Watts at 25°C (W)	Resistance Range (Ω)		Tolerance	Dimensions (mm)			
		Min	Max		A±0.25	ΦB±0.25	Φd	F
BWL-0.5	0.5	0.01	1	±1% ±2% ±5%	7.0	3.0	0.8	27.0
BWL-1	1.0	0.005	2		11.0	3.0	0.8	31.0
BWL-3	3.0	0.005	2		15.0	5.2	0.8	34.0
BWL-4	4.0	0.005	5		18.0	6.5	0.8	38.0
BWL-5	5.0	0.005	1		24.0	8.4	1.0	44.0
BWL-10	10.0	0.01	1		46.5	10.0	1.0	66.0

Power Derating Curve



### ► Low Resistance Resistor Performance

Test Items	Test Conditions	Specifications
Operating Temp. Range		-55°C ~ 175°C
Insulation Resistance	500V	>1GΩ
Dielectric Withstanding Voltage	500V AC 1 Min.	$\Delta R \leq \pm 0.1\%R$
Load Life	70°C on~off cycle 1000 Hrs.	$\Delta R \leq \pm 1\%R$
Moisture-Proof Load Life	40°C 95% RH on~off cycle 21 Hrs.	$\Delta R \leq \pm 0.2\%R$
Resistance to soldering heat	350°C, 3.5s	$\Delta R \leq \pm 0.1\%R$
Solderability	235±5°C, 5s(solder bath method)	IEC68-2-20(1968)





# Current Sensing Resistors

## ► How to Order

BWL	-	1W	R01	F	P
❶		❷	❸	❹	❺

### ❶ Product Type

### ❷ Resistance

Code	Resistance
R01	0.01Ω
R1	0.1Ω
1R	1Ω

### ❸ Resistance Tolerance

Code	Resistance Tolerance
F	±1%
G	±2%
J	±5%

### ❹ Packaging: P (Bulk)

