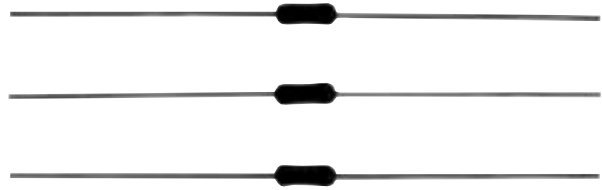


**Precision Metal Film Resistors,
High Stability**

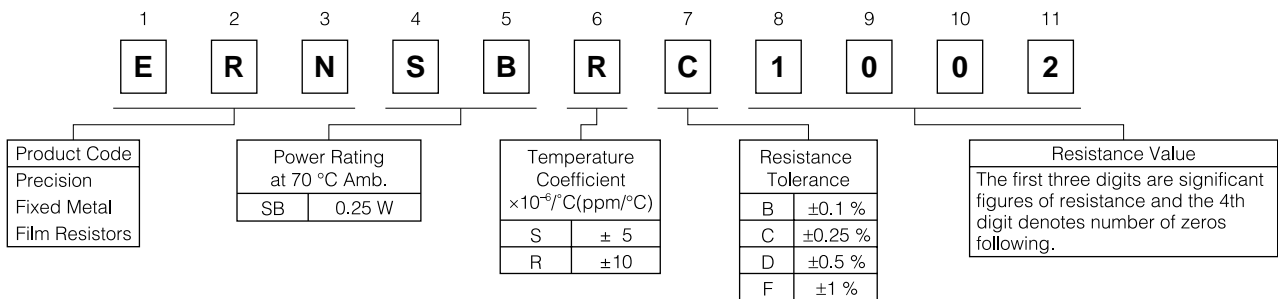
Type: **ERNSB (0.25 W)**



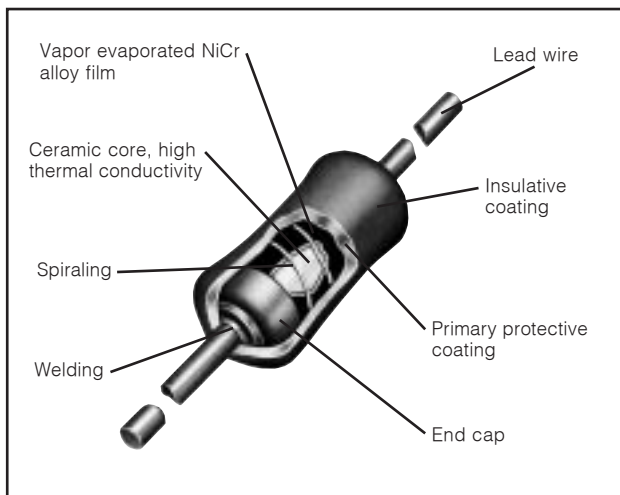
■ **Features**

- Precision Resistance tolerance: $\pm 0.1\%$, T.C.R.: $\pm 5 \times 10^{-6}/^{\circ}\text{C}$ (ppm/ $^{\circ}\text{C}$)
- Reliability High stability for long load life
- Approved under the ISO 9001 system
- Reference Standards: IEC 60115-5, JIS C 5201-5

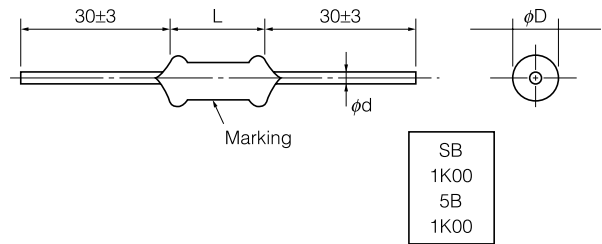
■ **Explanation of Part Numbers**



■ **Construction**



■ **Dimensions in mm (not to scale)**



Standard Quantity : 100 pcs

Type	Dimensions (mm)		
	L	ϕD	ϕd
ERNSB	6.30 ± 0.50	2.50 ± 0.20	0.60 ± 0.05

Please contact us for taping shape.

■ Ratings

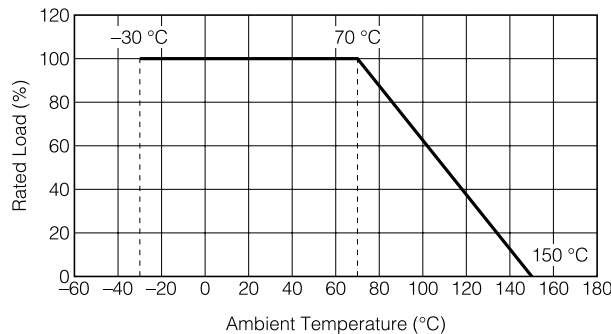
Type	Power Rating at 70 °C (W)	Limiting Element Voltage (Maximum RCWW) ⁽¹⁾ (V)	Maximum Overload Voltage ⁽²⁾ (V)	Dielectric Withstanding Voltage (V)	T.C.R. $\times 10^{-6}/^{\circ}\text{C}$ (ppm/ $^{\circ}\text{C}$)	Resistance Tolerance (%)	Resistance Range (Ω)		Resistance Vale	Mass (mg)
							min.	max.		
ERNSB	0.25	250	500	500	S: ± 5 R: ± 10	B: ± 0.1 C: ± 0.25	100	150 k	E192, E24	219
						D: ± 0.5 F: ± 1			E96, E24	

(1) Rated Continuous Working Voltage (RCWV) should be determined from $\text{RCWV} = \sqrt{\text{Power Rating} \times \text{Resistance Value}}$, or Limiting Element Voltage (maximum RCWV) listed above, whichever is less.

(2) Overload (Short-time Overload) Test Voltage (SOTV) should be determined from $\text{SOTV} = 2.5 \times \text{Power Rating}$ or max. Overload Voltage listed above whichever is less.

Power Derating Curve

For resistors operating in ambient temperature above 70 °C, power rating shall be derated in accordance with the figure below.



⚠ Safety Precautions

1. Rated Power and Ambient Temperature

Keep the rated power and ambient temperature within the specified derating curve.

* Mount resistors and other heating components on the board, taking into consideration the cumulative temperature rise of all components.

2. External Shock

Mechanical shock during automatic mounting or handling of board after chip is mounted may result in breakage, or separation of protective coating of the resistors which may impair initial characteristics.

3. Ultrasonic Cleaning

Ultrasonic cleaning may sever lead wire due to resonance. Verify before actual use.

4. Application of Pulse

When pulse is applied to resistor, the peak value of pulse should be within the rated voltage.

Before ordering, test sample components in your application to ensure proper function and compatibility.