

## Precision Fixed Metal Film Resistors, High Stability

Type: **ERNSB**

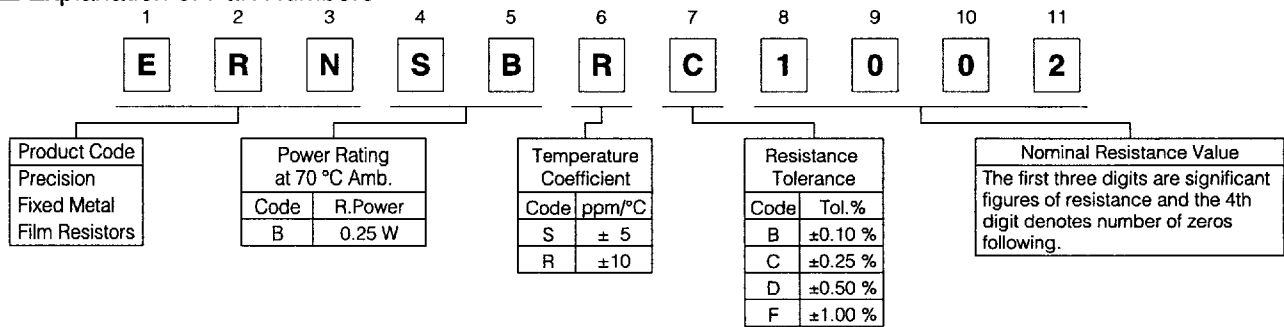
### ■ Features

- High Precision Type  
Resistance tolerance:  $\pm 0.1\%$ , T.C.R.:  $\pm 5 \text{ ppm}/^\circ\text{C}$
- High Stability for Long Time  
Very excellent characteristics over long time for load life and humidity long life characteristics
- Small and Light Weight  
Small and coating type
- Approved under the ISO-9001 system

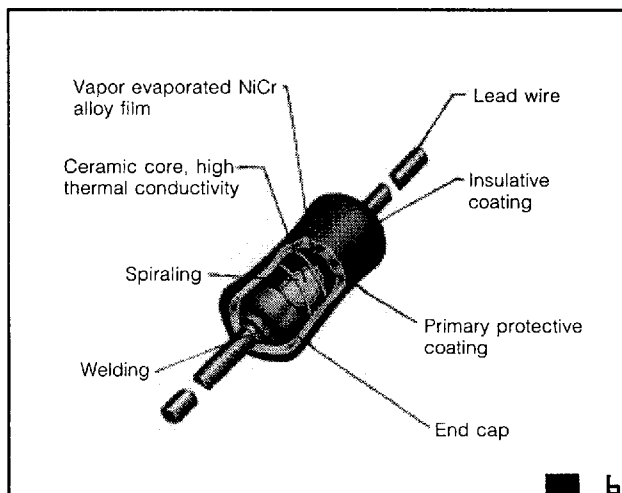
### ■ Recommended Applications

- A/D, D/A converters, measuring equipments
- Control units, Industrial meters, Electronic balances (for precision circuit)

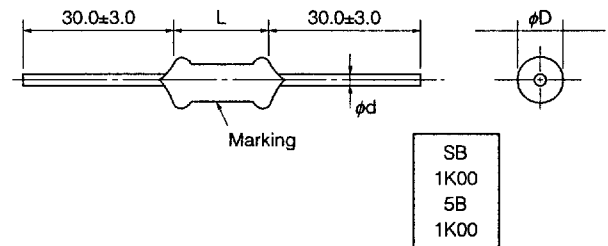
### ■ Explanation of Part Numbers



### ■ Construction



### ■ Dimensions in mm (not to scale)



Part No.	Dimensions (mm)		
	L	$\phi D$	$\phi d$
ERNSB	$6.30 \pm 0.50$	$2.50 \pm 0.20$	$0.60 \pm 0.05$

## ■ Ratings

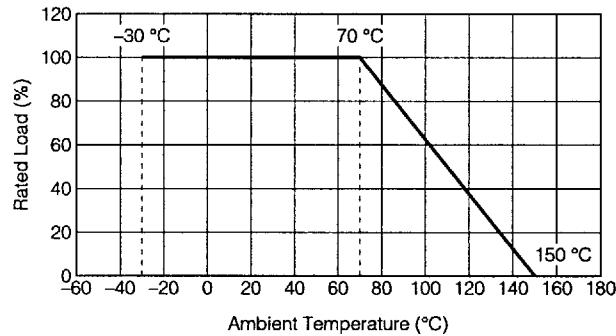
Part No.	Power Rating at 70 °C	Maximum RCWV*	Maximum Overload Voltage**	Dielectric Withstanding Voltage	T.C.R. (ppm/°C)	Resistance Tolerance (%)	Resistance Range (Ω)		Weight g/1000 pcs.
							min.	max.	
ERNSB	0.25 W	250 V	500 V	500 V	± 5 ±10	±0.10 ±0.25 ±0.5 ±1	100	150 k	219

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

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

### Power Derating Curve

For resistors operated in ambient temperatures above 70 °C, power rating shall be derated in accordance figure below.



### ⚠ Cautions for Safety

Refer common precautions (ER3 page) and individual cautions (ER55 page).