

Metal Film Resistors

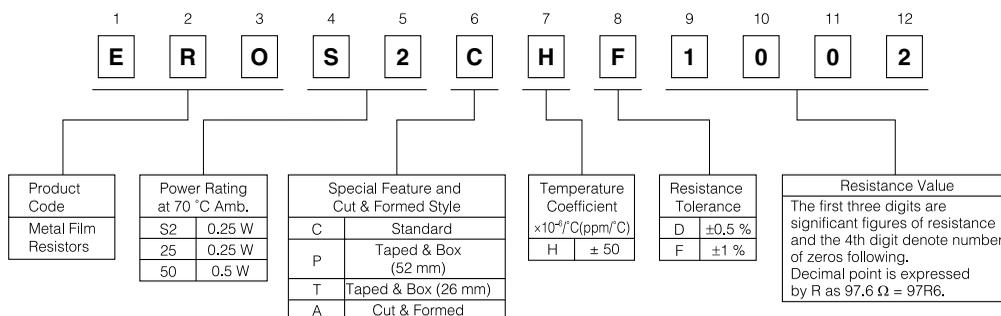
Type: **EROS2 (0.25 W)**
ERO25 (0.25 W)
ERO50 (0.5 W)



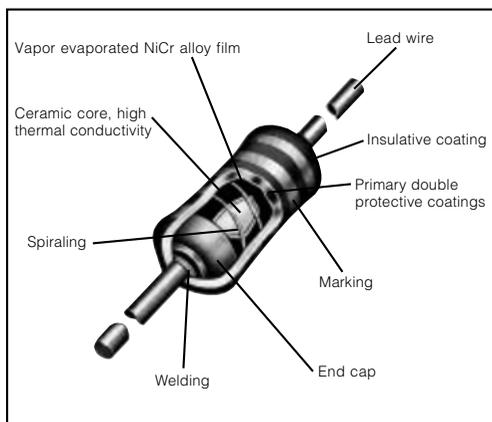
■ Features

- Performance, ReliabilityLow T.C.R. and noise, high reliability
- Automatic insertionTaping style for automatic inserting machine
- Marking5 color code marking
- Approved under the ISO 9001 system
- Reference StandardIEC 60115-2, JIS C 5201-2

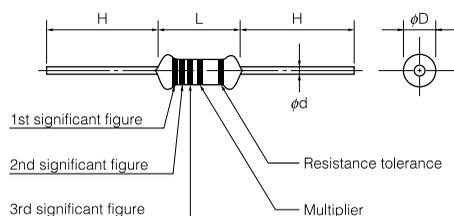
■ Explanation of Part Numbers



■ Construction



■ Dimensions in mm (not to scale)



Standard Quantity : 2000 pcs.

See Page ER83 to ER84 for taping shape.

Type	Dimensions (mm)				Mass (mg)
	L	ϕD	ϕd	H	
EROS2C	$3.20^{+0.20}$	$1.70^{+0.20}_{-0.10}$	$0.45^{+0.05}$	30^{+3}	107
ERO25C	$6.30^{+0.50}$	$2.30^{+0.50}$	$0.60^{+0.05}$	30^{+3}	228
ERO50C	$9.50^{+0.50}$	$3.50^{+0.50}$	$0.60^{+0.05}$	30^{+3}	381

■ Ratings

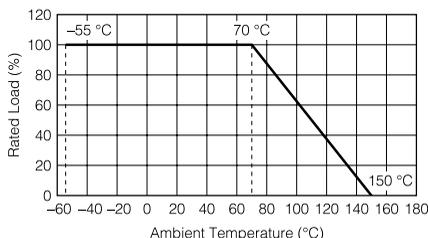
Type	Power Rating at 70 °C (W)	Limiting Element Voltage (Maximum RCWW) ⁽¹⁾ (V)	Maximum Overload Voltage ⁽²⁾ (V)	Dielectric Withstanding Voltage (V)	T.C.R. $\times 10^{-6}/^{\circ}\text{C}$ (ppm/ $^{\circ}\text{C}$)	Resistance Tolerance (%)	Resistance Range (Ω)		Resistance Value
							min.	max.	
EROS2CH	0.25	250	500	300	± 50	F (± 1)	2	1 M	E24
						D (± 0.5)	10	1 M	E96
ERO25CH	0.25	250	500	500	± 50	F (± 1)	2	1 M	E24
						D (± 0.5)	10	1 M	E96
ERO50CH	0.5	350	700	700	± 50	F (± 1)	20	1 M	E24
						D (± 0.5)	49.9	1 M	E96

(1) Rated Continuous Working Voltage (RCWW) should be determined from $\text{RCWW} = \sqrt{\text{Power Rating} \times \text{Resistance Value}}$, or Limiting Element Voltage (maximum RCWW) 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 operated in ambient temperatures above 70 °C, power rating should be derated in accordance with the figure below.



⚠ Cautions for Safety

1. Rated Power and Ambient Temperature

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

* Place and fit resistors and other heating components on board, taking into consideration the temperature rise due to the proximity of these components to each other.

2. External Shock

Mechanical shock during automatic mounting or handling of board after chip being mounted may cause break, flow or fall-off of paint film of resistor that may impair initial characteristics.

3. Ultrasonic Cleaning

Ultrasonic cleaning may cut lead wire due to resonance. Try and check before use.

4. Application of Pulse

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

This catalog shows the quality and performance of a unit component. For quality assurance, please confirm your specific requirements with us. Before design-in, be sure to evaluate and verify the product by mounting it in your product.