



Ideal for Smartphones and Wearable Devices

The Industry's Smallest Chip Resistors

SMR002

*August 2014 ROHM survey

Features

- The industry's smallest chip size (0201mm) achieved using original process technology
- Provides the same rated power as 03015mm size products (20mW)
- Chip dimensional precision improved from $\pm 10\mu\text{m}$ to $\pm 5\mu\text{m}$ (L×W)

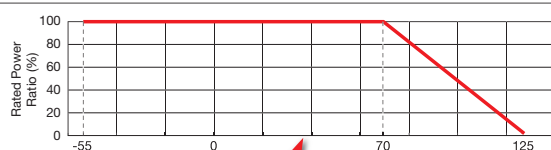
*August 2014 ROHM survey

Applications

- Smartphones / wearable devices
- Medical / healthcare equipment
- PC / peripheral devices



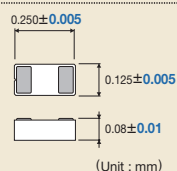
0201 Rated Power



20mW rated power equivalent
to 03015 size products

External Dimensions

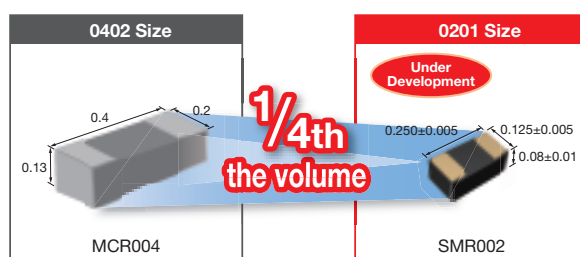
High dimensional precision



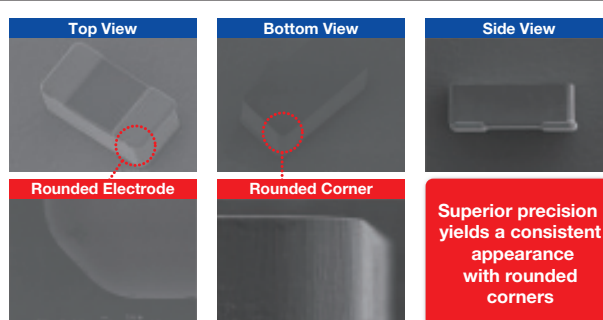
Dimensional
precision
0.005mm

Semiconductor
process
technology ensures
an extremely
precise form factor

Chip Size Comparison



0201R Style



Specifications

Part No.	Size (mm)	Rated Power (W)	Limiting Element Voltage (V)	Resistance Range (Ω)	Resistance Tolerance	Temperature Coefficient of Resistance (TCR)	Operating Temperature Range (°C)
☆ SMR002	0.25 × 0.125 × 0.08	1/50 (0.02)	10	10 to 1M (E24)	F ($\pm 1\%$) J ($\pm 5\%$)	200ppm / °C	-55 to 125

☆ : Under development