

Connector with Built-in Elements

Mass-Produced Product
Since 1980s

- Utilizes “Chip mounting and transfer molding technology”
- Meets the needs for flexible circuit design and sudden circuit changes

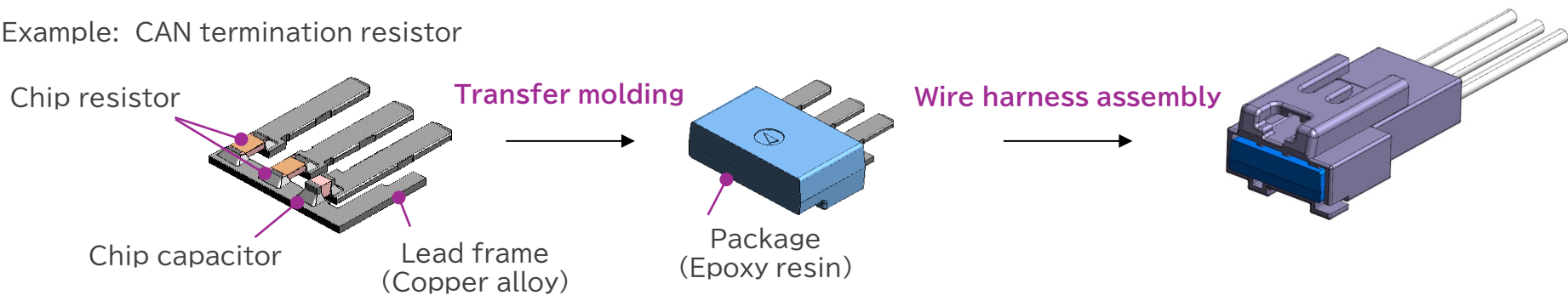
Background or Challenges

Demand for mounting electronic components directly on wire harness circuits without a PCB

Solutions to Challenges or Features

① Connector design with built-in chip components

Example: CAN termination resistor



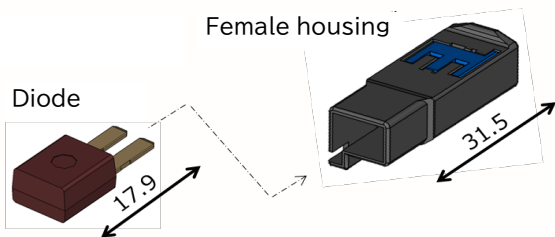
Allows for flexible installation of connectors and electronic components on wire harness circuits

② Wide range of options available

I. Diode

Used for rectification in circuits where reverse current flow is prevented

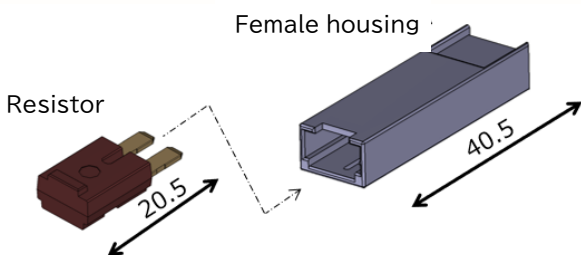
Reverse voltage	400V
Output current	1.5A, 3.0A (multi-element built-in type available)
Operating temperature	-30°C to 80°C
Terminal size	W2.3, W1.8
Vibration resistance	44m/s ² at 3 axes for 300 hours



II. Resistor

Used for current limiting, voltage division, etc.

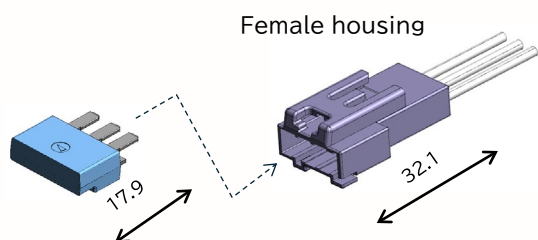
Resistance value	2.2kΩ, 2.7kΩ (multi-element built-in type available)
Rated power	0.5kW
Operating temperature	-40°C to 65°C
Terminal size	W2.8, W2.3
Vibration resistance	44m/s ² at 3 axes for 300 hours



III. CAN termination resistor

Used for CAN communication circuits

Resistance value (R1/R2)	60.4Ω/60.4Ω
Capacitance (C1)	0.047μF or 0.015μF or 0.0047μF
Operating temperature	-40°C to 85°C
Terminal size	W2.3
Vibration resistance	44m/s ² at 3 axes for 300 hours



Annual production: 25 million units
Total series output: 500 million units

Please contact us for customization of built-in electronic components.



Check here!



Product portfolio