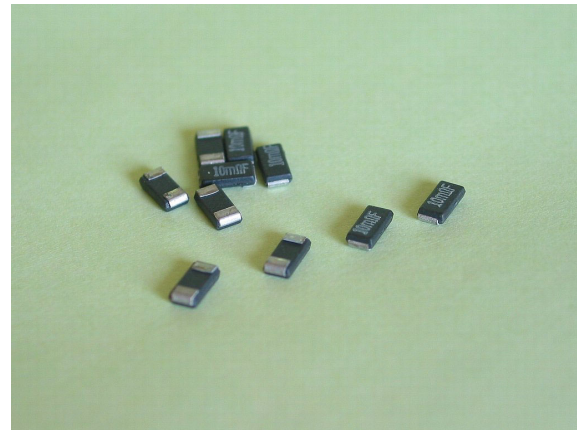


**CURRENT DETECT CHIP RESISTORS,
WSN1/2, WSN1, WSN2**



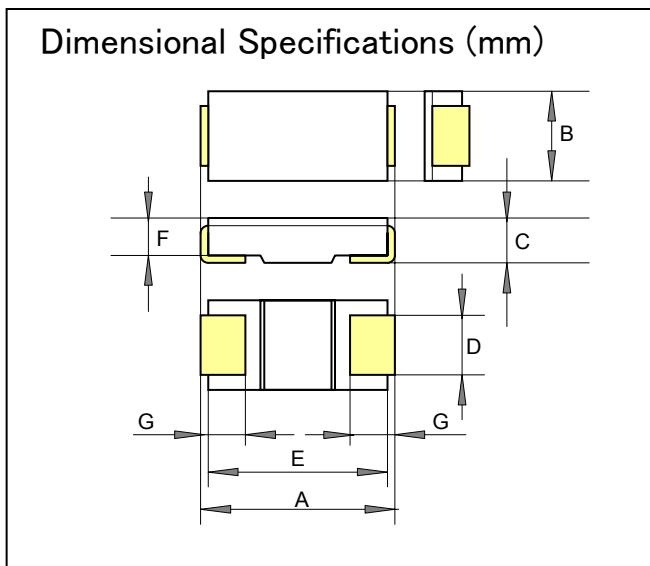
Features and Applications

Surface mounted, low resistance value, low profile, low inductance and large impulse durable molded metal plate current detect resistors.

Rating 1/2W, 1W and 2W selectable for your applications.

Tolerance +/-1% and TC100ppm/C standard.

Current detection circuit for high speed CPU peripherals, battery charging current protections, DC-DC conversion modules, DC-AC conversion, servo-motor control electronics, intelligent power modules, etc.



| Type | WSN1/2 | WSN1 | WSN2 |
|------|-----------|-----------|-----------|
| A | 5.0+/-0.3 | 6.4+/-0.3 | 8.3+/-0.3 |
| B | 2.5+/-0.3 | 3.2+/-0.3 | 4.0+/-0.3 |
| C | 1.27 | 1.40 | 1.40 |
| D | 2.0 | 2.0 | 3.0 |
| E | 4.7 | 6.0 | 8.0 |
| F | 1.1 | 1.3 | 1.3 |
| G | 1.2 | 1.2 | 1.2 |

Printing
Marking is done by 3 digits resistance value.

Specification and Performances

| | WSN1/2 | WSN1 | WSN2 | Remarks |
|----------------------|-------------------|--------------------|--------------------|------------|
| Resistance | 0.003 to 0.05ohms | 0.003 to 0.100ohms | 0.005 to 0.200ohms | |
| TCR | +/-100ppm/C (A) | | | |
| Tolerance | +/-1.0% (F) | | | |
| Rating Power | 0.5W | 1W | 2W | -55 to 70C |
| Series Inductance | 1nH | 2nH | 5nH | |
| Parallel Capacitance | <0.1pF | <0.1pF | <0.1pF | |
| Operating Temp. | -55 to +150 C | -55 to +150 C | -55 C to 150 C | |
| Storage Temp. | -55 C to 150 C | -55 C to 150 C | -55 C to 150 C | |
| Tape package | 5000 pcs/12mm | 3000 pcs/12mm | 2000 pcs/16mm | /13" reel |

Note: Tape Packaging: Embossed carrier tape per EIA-481-1-2.

CURRENT DETECT CHIP RESISTORS,

WSN1/2, WSN1, WSN2

Ordering Information

| Ordering P/N | Type | TC | Resistance | Tolerance | Additional Code |
|---------------------|--------|------------|------------|-----------|-----------------|
| WSN1/2A0.001ohmFZ01 | WSN1/2 | A (100ppm) | 3 m Ohms | F (1%) | Z01 tape |
| WSN1A0.002ohmFZ01 | WSN1 | A (100ppm) | 3 m Ohms | F (1%) | Z01 tape |
| WSN2A0.100ohmFZ01 | WSN2 | A (100ppm) | 100 m Ohms | F (1%) | Z01 tape |

Specifications

| | Specifications | Conditions |
|--------------------------|----------------|---|
| Short Time Overload | +/-0.2% | 5 times of rating watt, 5seconds. |
| Withstanding Voltage | +/-0.1% | AC500V, 1 minuets |
| Insulation Resistance | >1000Mohms | |
| Low Temperature Storage | +/-0.5% | -55C, 24 hours |
| High Temperature Storage | +/-1.0% | +275C, 2 hours |
| Heat Shock | +/-0.2% | -55C to +85C, 20min. interval, 5min. 5cycles |
| Solder ability | >90% coverage | 230C+/-5C for 5sec. |
| Humidity | +/-0.5% | 40C, 90-95%RH, dc0.1W, 1000 hours |
| Load Life | +/-0.5% | 25C, dc rated power, 90min ON, 30min OFF, 1000hours |

