

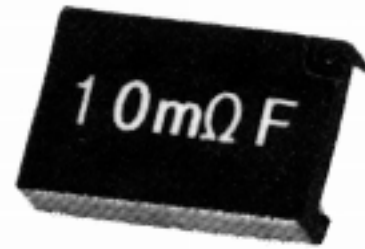
CURRENT DETECTING CHIP RESISTOR

ISO-9001
Registered



OBSOLETE

WSML SERIES



- Surface Mount type current detecting resistor
- Molding with flameproof polymer (UL94 V-0)
- Excellent dimension accuracy, mountability and shock resistance.
- Suitable for flow, reflow and hand soldering.

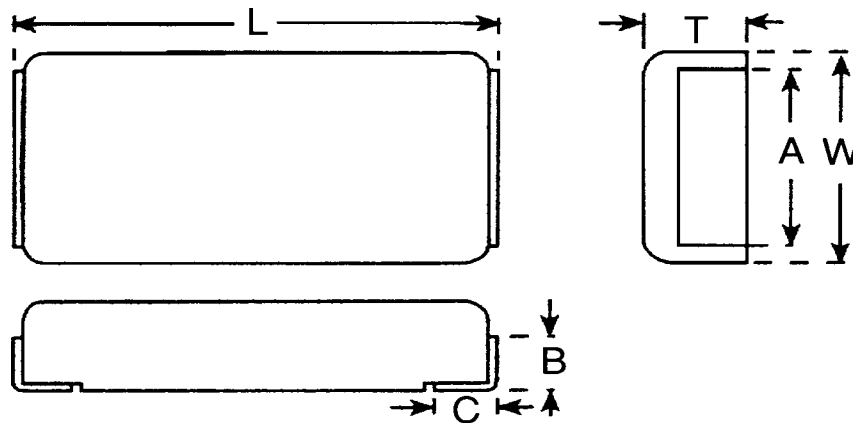
FEATURES:

- Excellent dimensional accuracy, mountability and shock resistance. Due to liquid crystal polymer mold.
- Excellent terminal strength and solderability due to electrode material of metal.

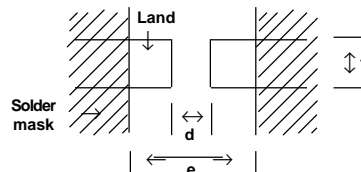
RATING:

| TYPE | POWER RATING | RESISTANCE RANGE | RESISTANCE TOLERANCE | TCR | RATED AMBIENT TEMP. | OPERATING TEMP. RANGE |
|--------|--------------|------------------|----------------------|----------------------|---------------------|-----------------------|
| WSML-1 | 1W | 5mΩ - 10KΩ | J(±5%) & F(±1%) | R ≤ 13mΩ ±180 ppm/°C | +70°C | -55°C to +180°C |
| WSML-2 | 2W | | | R ≥ 13mΩ ±100 ppm/°C | | |

| TYPE | DIMENSIONS (inches & (mm)) | | | | | |
|--------|----------------------------|--------------|-------------|-------------|-------------|-------------|
| | L | W | t | a | b | c |
| WSML-1 | 0.248 | 0.122 | 0.075 | 0.094 | 0.047 | 0.047 |
| | (6.3 ± 0.3) | (3.1 ± 0.2) | (1.9 ± 0.2) | (2.4 ± 0.2) | (1.2 ± 0.3) | (1.2 ± 0.3) |
| WSML-2 | 0.453 | 0.276 | 0.098 | 0.196 | 0.067 | 0.067 |
| | (11.5 ± 0.3) | (7.0 ± 0.02) | (2.5 ± 0.2) | (5.0 ± 0.2) | (1.7 ± 0.2) | (1.7 ± 0.3) |



Recommended Land Pattern



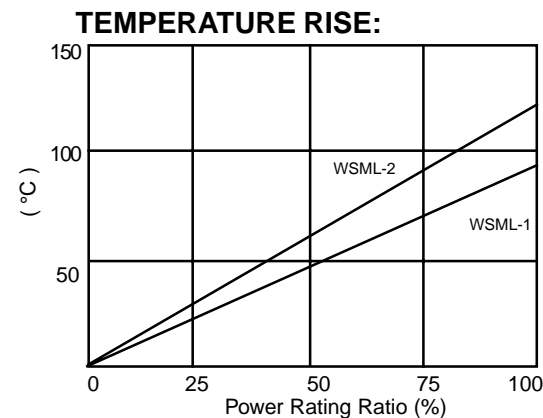
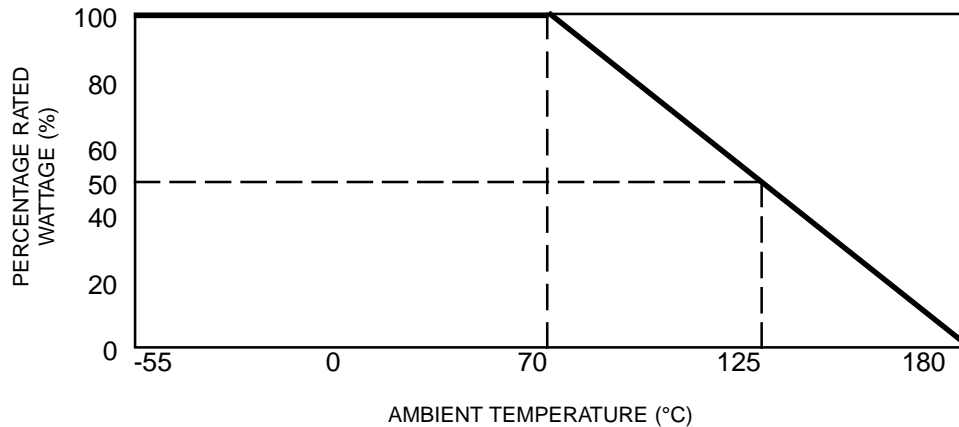
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ENVIRONMENTAL & MECHANICAL CHARACTERISTICS:

| PARAMETER | REQUIREMENT | TEST METHOD |
|---------------------------|---|--|
| Thermal Shock | ±0.5% | MIL-STD-202, Method 107 -55°C ~ +125°C, 5 cycles |
| Low Temperature Exposure | ±0.5% | MIL-R-55342 p 4.7.4 1 Hour @ -55°C followed by 45 minutes of RCWV** |
| High Temperature Exposure | ±0.5% | MIL-R-55342 p 4.7.6 100 Hours @ 125°C |
| Solderability | 95% of the terminal should be covered with new solder | Immerse in solder at 230°C ±5°C for 3 ± 0.5 seconds |
| Resistance to Solder Heat | ±1.0% maximum | MIL-R-55342 p 4.7.7 260°C for 10 seconds |
| Terminal Strength-Bend | ±0.5% | 5mm Deflection in either direction for 10 seconds |
| Moisture Resistance | ±2.0% maximum No evidence of damage | MIL-STD-202, Method 106 10 cycles for 240 hours |
| Life | ±2.0% maximum No evidence of damage | MIL-STD-202, Method 108 70°C, 1000 hours @ RCWV**, 1.5 Hr on, 0.5 Hr off |
| Pulse | ±1.5% | 2.5 x RCWV**, But not exceeding maximum overload voltage 1 seconds ON, 25 seconds OFF, 10,000 cycles |
| Temperature Cycling | ±1.0% maximum No mechanical damage | 30 Minutes at -55°C: 15 Minutes at +25°C, 30 Minutes at +125°C, 15 Minutes at +25°C, 5 Cycles |

**RCWV = Rated Continuous Working Voltage



HOW TO ORDER:

Sample: WSML1 10mΩ F TE

Type _____

Value _____

Tolerance _____
(F=1%, J=5%)

Packaging Code _____
(TE=Tape & Reel, BLK=Bulk)