



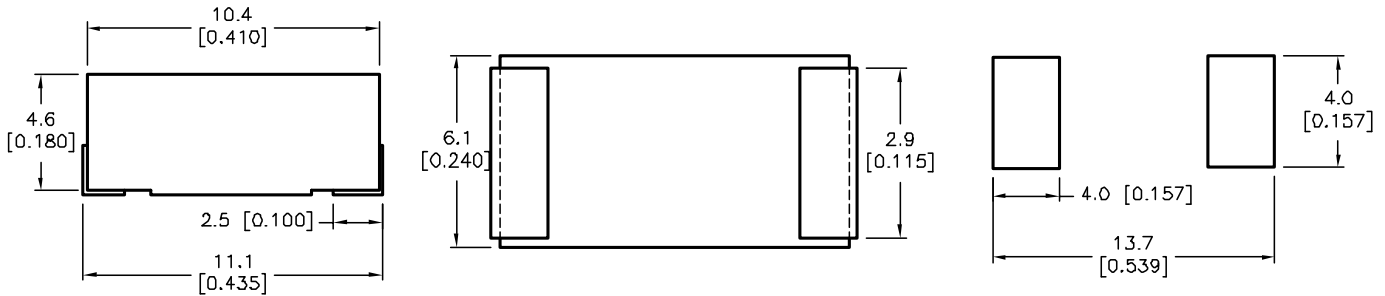
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SPC-F005.DWG

REVISIONS

| DCP # | REV | DESCRIPTION | DRAWN | DATE     | CHECKD | DATE     | APPRVD | DATE     |
|-------|-----|-------------|-------|----------|--------|----------|--------|----------|
| 1996  | A   | Released    | JN    | 11/07/08 | JWM    | 11/07/08 | JWM    | 11/07/08 |

DOC. NO. SPC-F005 \* Effective: 7/8/02 \* DCP No: 1308



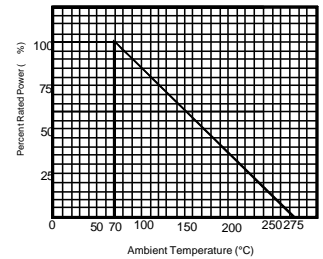
Features

- High temperature molded encapsulation
- Non-inductive types available as NSM
- Flex termination for absorbing thermal expansion
- All welded construction
- Lead-free

Performance Characteristics

| Test                            | Results   |
|---------------------------------|-----------|
| Moisture Resistance             | ±1.0%     |
| Thermal Shock                   | ±0.5%     |
| Load Life @70°C – 1,000 hrs.    | ±1.0%     |
| Shock and Vibration             | ±1.0%     |
| Resistance to Soldering Heat    | ±1.0%     |
| Terminal Strength               | ±0.5%     |
| Dielectric Withstanding Voltage | ±0.001%/V |
| Short Time Overload             | ±0.2%     |
| Low Temperature Operation       | ±0.5%     |

Power Derating Curve



Electrical Specifications

| Power Rating (Watts) @ 70°C | Maximum Working Voltage | Resistance Temperature Coefficient | Ohmic Range and Tolerance                                 |
|-----------------------------|-------------------------|------------------------------------|---|
| 2W                          | 50V                     | ±100 ppm/°C<br>± 20 ppm/°C         | 0.1%, 0.5%, 1% & 5%<br>0.01 Ω - 10.0 Ω<br>10.2 Ω - 2.0K Ω |

DISCLAIMER:  
ALL STATEMENTS AND TECHNICAL INFORMATION CONTAINED HEREIN ARE BASED UPON INFORMATION AND/OR TESTS WE BELIEVE TO BE ACCURATE AND RELIABLE. SINCE CONDITIONS OF USE ARE BEYOND OUR CONTROL, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR THE INTENDED USE AND ASSUME ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

|               |          |
|---------------|----------|
| DRAWN BY:     | DATE:    |
| Jason Nash    | 11/07/08 |
| CHECKED BY:   | DATE:    |
| Jeff McVicker | 11/07/08 |
| APPROVED BY:  | DATE:    |
| Jeff McVicker | 11/07/08 |

DRAWING TITLE:

Surface Mount Wirewound Resistor

|            |                     |                 |     |
|------------|---------------------|-----------------|-----|
| SIZE       | DWG. NO.            | ELECTRONIC FILE | REV |
| A          | Ta-1049             | Ta-1049.dwg     | A   |
| SCALE: NTS | U.Q.M.: INCHES [mm] | SHEET: 1 OF 1   |     |



| ManufPartNo   | Resistance | Unit of Measure | Quantity     |
|---------------|------------|-----------------|--------------|
| MCSM2W0R01 FR | 0.01ohm    | Tape & Cut      | 1 Ea.        |
| MCSM2W0R01 FR | 0.01ohm    | Tape & Reel     | Spool of 800 |
| MCSM2W0R05FR  | 0.05ohm    | Tape & Cut      | 1 Ea.        |
| MCSM2W0R05FR  | 0.05ohm    | Tape & Reel     | Spool of 800 |
| MCSM2W0R10 FR | 0.1ohm     | Tape & Cut      | 1 Ea.        |
| MCSM2W0R10 FR | 0.1ohm     | Tape & Reel     | Spool of 800 |
| MCSM2W10R0FR  | 10ohm      | Tape & Cut      | 1 Ea.        |
| MCSM2W10R0FR  | 10ohm      | Tape & Reel     | Spool of 800 |
| MCSM2W100RFR  | 100ohm     | Tape & Cut      | 1 Ea.        |
| MCSM2W100RFR  | 100ohm     | Tape & Reel     | Spool of 800 |
| MCSM2W1001FR  | 1kohm      | Tape & Cut      | 1 Ea.        |
| MCSM2W1001FR  | 1kohm      | Tape & Reel     | Spool of 800 |
| MCSM2W2R00FR  | 2ohm       | Tape & Cut      | 1 Ea.        |
| MCSM2W2R00FR  | 2ohm       | Tape & Reel     | Spool of 800 |
| MCSM2W200RFR  | 200ohm     | Tape & Cut      | 1 Ea.        |
| MCSM2W200RFR  | 200ohm     | Tape & Reel     | Spool of 800 |
| MCSM2W25R0FR  | 25ohm      | Tape & Cut      | 1 Ea.        |
| MCSM2W25R0FR  | 25ohm      | Tape & Reel     | Spool of 800 |
| MCSM2W250RFR  | 250ohm     | Tape & Cut      | 1 Ea.        |
| MCSM2W250RFR  | 250ohm     | Tape & Reel     | Spool of 800 |
| MCSM2W50R0FR  | 50ohm      | Tape & Cut      | 1 Ea.        |
| MCSM2W50R0FR  | 50ohm      | Tape & Reel     | Spool of 800 |
| MCSM2W500RFR  | 500ohm     | Tape & Cut      | 1 Ea.        |
| MCSM2W500RFR  | 500ohm     | Tape & Reel     | Spool of 800 |

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SIZE

A

DWG. NO.

Ta-1049

ELECTRONIC FILE

Ta-1049.DWG

REV

A

SPC-F005.DWG

DOC. NO. SPC-F005 \* Effective: 7/8/02 \* DCP No: 1388

SCALE: NTS

U.O.M.: INCHES [mm]

SHEET: 2 OF 2