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SPC-F005.DWG

REVISIONS

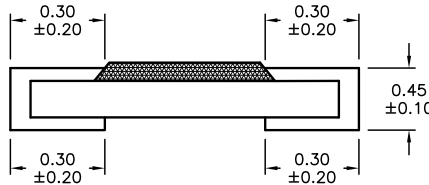
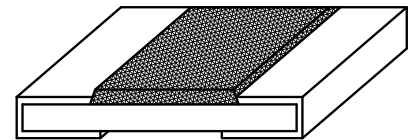
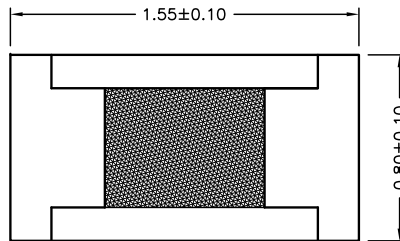
DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

| DCP # | REV | DESCRIPTION | DRAWN | DATE | CHECKD | DATE | APPRVD | DATE |
|-------|-----|-------------|-------|--------|--------|--------|--------|--------|
| 2097 | A | RELEASED | JYC | 8/3/10 | JYC | 8/3/10 | JYC | 8/3/10 |

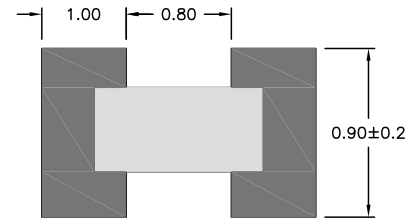


Features:

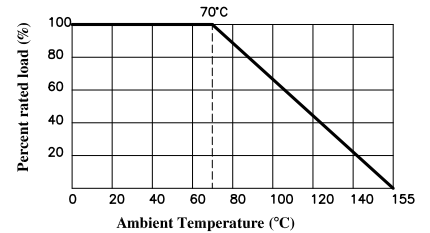
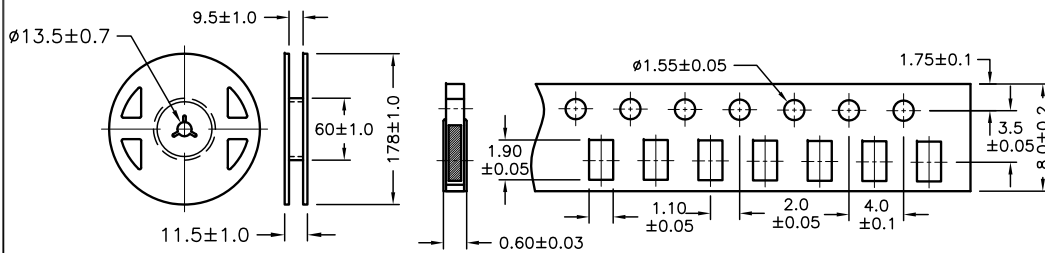
- Thin Film Passivated NiCr Resistor
- Very Tight Tolerance down to $\pm 0.05\%$
- Wide R-Value Range 4.7ohm~1Meg ohm
- Power Rating: 1/16W
- Operating Temp. Range: $-55^{\circ}\text{C} \sim +155^{\circ}\text{C}$
- Max. Operating Voltage: 50V
- Max. Overloading Voltage: 100V
- TCR (PPM/ $^{\circ}\text{C}$): $\pm 25, \pm 50$



Recommended Land Pattern



Tape & Reel Dimension



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| | |
|--------------|--------|
| DRAWN BY: | DATE: |
| Jerrold Chen | 8/3/10 |
| CHECKED BY: | DATE: |
| Jerrold Chen | 8/3/10 |
| APPROVED BY: | DATE: |
| Jerrold Chen | 8/3/10 |

DRAWING TITLE:

Thin Film Precision Resistor, EIA Size 0603, 1/16 Watt

| | | | |
|--------|-------------|-----------------|-----|
| SIZE | DWG. NO. | ELECTRONIC FILE | REV |
| A | Ta-1007 | Ta-1007.DWG | A |
| SCALE: | U.O.M.: | SHEET: | |
| NTS | Millimeters | 1 OF 2 | |



| Manufacturers part number | Resistance | Resistance Tolerance | Resistor Case Style | Power Rating |
|---------------------------|------------|----------------------|---------------------|--------------|
| MCTF0603BTC1000 | 100 ohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1001 | 1 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1002 | 10 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1003 | 100 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1203 | 120 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1502 | 15 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC2002 | 20 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC2203 | 220 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC3001 | 3 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC3002 | 30 kohm | ± 0.1% | 805 | 62.5 mW |
| MCTF0603BTC3301 | 3.3 kohm | ± 0.1% | 805 | 62.5 mW |
| MCTF0603BTC1000 | 100 ohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1001 | 1 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1002 | 10 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1003 | 100 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1203 | 120 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC1502 | 15 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC2002 | 20 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC2203 | 220 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC3001 | 3 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC3002 | 30 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603BTC3301 | 3.3 kohm | ± 0.1% | 603 | 62.5 mW |
| MCTF0603TTZ1000 | 100 ohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTZ1001 | 1 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTZ1002 | 10 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTY1001 | 1 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTY1002 | 10 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTY1003 | 100 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTX1001 | 1 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTX1002 | 10 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTX1003 | 100 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603ATZ750 | 75 ohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATZ1502 | 1.5 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATZ3001 | 3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATZ3301 | 3.3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY1203 | 120 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY1502 | 15 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY2002 | 20 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY2203 | 220 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3001 | 3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3002 | 30 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3301 | 3.3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX1203 | 120 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX1502 | 15 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX2002 | 20 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX2203 | 220 kohm | ± 0.05% | 603 | 100 mW |
| MCTF0603ATX3001 | 3 kohm | ± 0.05% | 603 | 100 mW |
| MCTF0603ATX3002 | 30 kohm | ± 0.05% | 603 | 100 mW |
| MCTF0603ATX3301 | 3.3 kohm | ± 0.05% | 603 | 100 mW |

| Manufacturers part number | Resistance | Resistance Tolerance | Resistor Case Style | Power Rating |
|---------------------------|------------|----------------------|---------------------|--------------|
| MCTF0603ATY2203 | 220 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3001 | 3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3002 | 30 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3301 | 3.3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX1203 | 120 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX1502 | 15 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX2002 | 20 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX2203 | 220 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX3001 | 3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX3002 | 30 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX3301 | 3.3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603TZ1000 | 100 ohm | ± 0.01% | 603 | 31.25 mW |
| MCTF0603TZ1001 | 1 kohm | ± 0.01% | 603 | 31.25 mW |
| MCTF0603TZ1002 | 10 kohm | ± 0.01% | 603 | 31.25 mW |
| MCTF0603TTY1001 | 1 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTY1002 | 10 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTY1003 | 100 kohm | ± 0.01% | 603 | 62.5 mW |
| MCTF0603TTX1001 | 1 kohm | ± 0.01% | 603 | 100 mW |
| MCTF0603TTX1002 | 10 kohm | ± 0.01% | 603 | 100 mW |
| MCTF0603TTX1003 | 100 kohm | ± 0.01% | 603 | 100 mW |
| MCTF0603ATZ750 | 75 ohm | ± 0.05% | 603 | 31.25 mW |
| MCTF0603ATZ1502 | 15 kohm | ± 0.05% | 603 | 31.25 mW |
| MCTF0603ATZ3001 | 3 kohm | ± 0.05% | 603 | 31.25 mW |
| MCTF0603ATZ3301 | 3.3 kohm | ± 0.05% | 603 | 31.25 mW |
| MCTF0603ATY1203 | 120 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY1502 | 15 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY2002 | 20 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY2203 | 220 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3001 | 3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3002 | 30 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATY3301 | 3.3 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX1203 | 120 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX1502 | 15 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX2002 | 20 kohm | ± 0.05% | 603 | 62.5 mW |
| MCTF0603ATX2203 | 220 kohm | ± 0.05% | 603 | 100 mW |
| MCTF0603ATX3001 | 3 kohm | ± 0.05% | 603 | 100 mW |
| MCTF0603ATX3002 | 30 kohm | ± 0.05% | 603 | 100 mW |
| MCTF0603ATX3301 | 3.3 kohm | ± 0.05% | 603 | 100 mW |

| Manufacturers part number | Kit Contents | Resistance Tolerance | TCR (PPM/°C) |
|---------------------------|---------------|----------------------|--------------|
| MCTF0603DTCKIT | E24 resistors | 5% | 25% |

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SIZE DWG. NO.

A Ta-1007

ELECTRONIC FILE

Ta-1007.DWG

REV

A

SPC-F005.DWG

DOC. NO. SPC-F005 * Effective: 7/8/02 * DCP No: 1398

SCALE: NTS

U.O.M.:

SHEET: 2 OF 2