



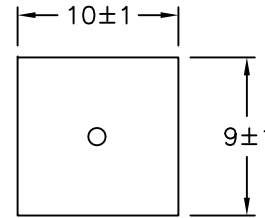
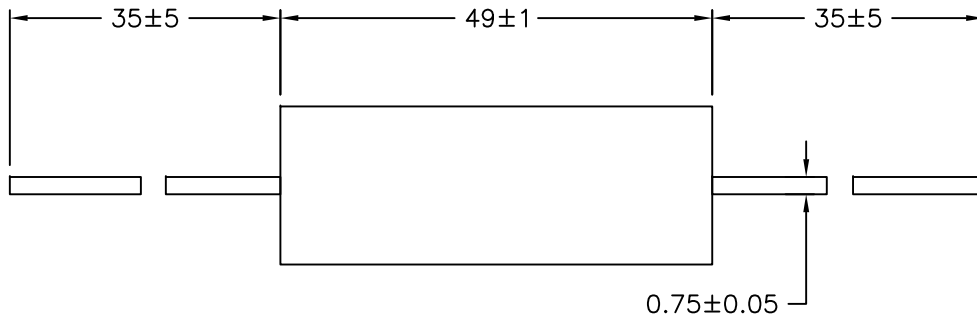
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SPC-F005.DWG

REVISIONS

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

| DCP # | REV | DESCRIPTION | DRAWN | DATE     | CHECKD | DATE     | APPRVD | DATE     |
|-------|-----|-------------|-------|----------|--------|----------|--------|----------|
| 1991  | A   | RELEASED    | JN    | 05/15/09 | JWM    | 05/15/09 | JWV    | 05/15/09 |



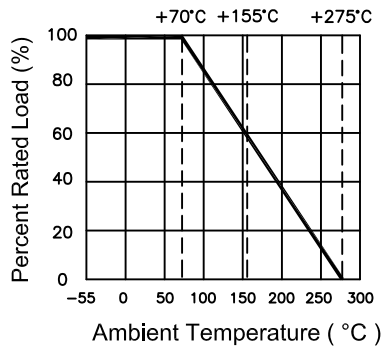
Performance Specification

- Self extinguishing
- Excellent flame and moisture resistance
- Extremely small sturdy and mechanical safe
- Product Type: Wire-wound Resistor
- Power Rating: 10 Watts
- Resistance Tolerance:  $\pm 5\%$

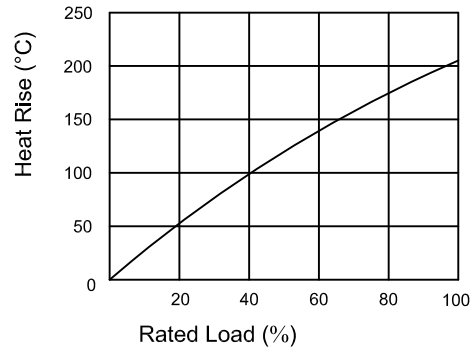
Performance Specification

- Temperature coefficient:  $<20\Omega$ :  $\pm 400\text{PPM}/^\circ\text{C}$ ;  $\geq 20$ :  $\pm 350\text{PPM}/^\circ\text{C}$
- Short-time overload:  $\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
- Dielectric withstanding voltage: No evidence of flashover, mechanical damage, arcing or insulation breakdown.
- Terminal strength: No evidence of mechanical damage.
- Solderability: Min. 95% coverage
- Temperature cycling:  $\Delta R/R \leq \pm(2.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
- Humidity (Steady State):  $\Delta R/R \leq \pm(5.0\% + 0.05\Omega)$ , with no evidence of mechanical damage.
- Load life in humidity: For Wire-wound range, the  $\Delta R/R$  is  $\pm 5\%$   
For Power film range,  $<100\text{K}\Omega$ , the  $\Delta R/R$  is  $\pm 5\%$   
For Power film range,  $\geq 100\text{K}\Omega$ , the  $\Delta R/R$  is  $\pm 10\%$
- Load Life: For Wire-wound range, the  $\Delta R/R$  is  $\pm 5\%$   
For Power film range,  $<100\text{K}\Omega$ , the  $\Delta R/R$  is  $\pm 5\%$   
For Power film range,  $\geq 100\text{K}\Omega$ , the  $\Delta R/R$  is  $\pm 10\%$
- Resistance to solderability heat:  $\Delta R/R \pm(1.0\% + 0.05\Omega)$  with no evidence of mechanical damage.

Derating Curve



Heat Rise Chart



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   | 05/15/09 |
| CHECKED BY:  | DATE:    |
| JWM          | 05/15/09 |
| APPROVED BY: | DATE:    |
| JWM          | 05/15/09 |

|   |          |                     |               |
|---|----------|---------------------|---------------|
| DRAWING TITLE:<br>10 watt (Wire-wound) Cement Fixed Resistors |          |                     |               |
| SIZE  | DWG. NO. | ELECTRONIC FILE     | REV           |
| A   | Ta-1184  | Ta-1184.DWG         | A             |
| SCALE:  | NTS      | U.O.M.: Millimeters | SHEET: 1 OF 2 |

| <b>Mfg. P/N</b>  | <b>Resistance<br/>(Ohms)</b> |
|------------------|------------------------------|
| MCPRW0AWJW100B00 | 10                           |
| MCPRW0AWJW101B00 | 100                          |
| MCPRW0AWJW10JB00 | 1                            |
| MCPRW0AWJW150B00 | 15                           |
| MCPRW0AWJW151B00 | 150                          |
| MCPRW0AWJW200B00 | 20                           |
| MCPRW0AWJW201B00 | 200                          |
| MCPRW0AWJW20JB00 | 2                            |
| MCPRW0AWJW270B00 | 27                           |
| MCPRW0AWJW271B00 | 270                          |
| MCPRW0AWJW27JB00 | 2.7                          |
| MCPRW0AWJW300B00 | 30                           |
| MCPRW0AWJW301B00 | 300                          |
| MCPRW0AWJW30JB00 | 3                            |
| MCPRW0AWJW331B00 | 330                          |
| MCPRW0AWJW390B00 | 39                           |
| MCPRW0AWJW391B00 | 390                          |
| MCPRW0AWJW430B00 | 43                           |
| MCPRW0AWJW431B00 | 430                          |
| MCPRW0AWJW470B00 | 47                           |
| MCPRW0AWJW471B00 | 470                          |
| MCPRW0AWJW47JB00 | 4.7                          |
| MCPRW0AWJW560B00 | 56                           |
| MCPRW0AWJW561B00 | 560                          |
| MCPRW0AWJW56JB00 | 5.6                          |
| MCPRW0AWJW680B00 | 68                           |
| MCPRW0AWJW681B00 | 680                          |
| MCPRW0AWJW68JB00 | 6.8                          |
| MCPRW0AWJW750B00 | 75                           |
| MCPRW0AWJW751B00 | 750                          |
| MCPRW0AWJW75JB00 | 7.5                          |
| MCPRW0AWJW820B00 | 82                           |
| MCPRW0AWJW821B00 | 820                          |

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|                  |                            |                                       |                 |
|------------------|----------------------------|---------------------------------------|-----------------|
| SIZE<br><b>A</b> | DWG. NO.<br><b>Ta-1184</b> | ELECTRONIC FILE<br><b>Ta-1184.dwg</b> | REV<br><b>A</b> |
| SCALE: NTS       |                            | U.O.M.: Millimeters                   | SHEET: 2 OF 2   |