



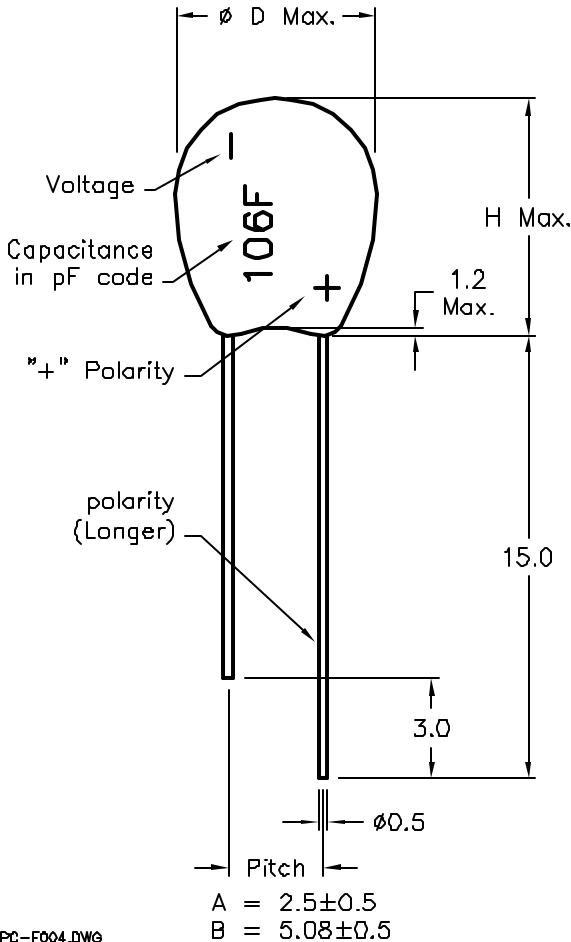
REVISIONS

DCG. NO. SPC-F004 \* Effective: 7/8/02 \* DCP No: 1398

| DCP # | REV | DESCRIPTION | DRAWN | DATE    | CHECKD | DATE     | APPRVD | DATE     |
|-------|-----|-------------|-------|---------|--------|----------|--------|----------|
| 1893  | A   | RELEASED    | EO    | 8/25/08 | JN     | 04/16/08 | JN     | 04/16/08 |



| Case Code | Dimensions |      |
|-----------|------------|------|
|           | D          | H    |
| A         | 4.0        | 6.5  |
| B         | 4.5        | 7.5  |
| C         | 5.2        | 8.5  |
| D         | 6.0        | 9.5  |
| E         | 7.0        | 10.5 |
| F         | 8.2        | 12.5 |
| G         | 10.0       | 18.5 |



| Multicomp P/N    | Voltage (WVDC) | Capacitance ( $\mu$ F) | Tolerance (%) | Case Code | Pitch |
|------------------|----------------|------------------------|---------------|-----------|-------|
| MCDT10K6R3-1-RH  | 6.3            | 10                     | 10            | A         | A     |
| MCDT15K6R3-1-RH  | 6.3            | 15                     | 10            | B         | A     |
| MCDT47M6R3-1-RH  | 6.3            | 47                     | 20            | C         | A     |
| MCDT100M6R3-1-RH | 6.3            | 100                    | 20            | E         | A     |
| MCDT4R7K10-1-RH  | 10             | 4.7                    | 10            | A         | A     |
| MCDT10K10-1-RH   | 10             | 10                     | 10            | B         | A     |
| MCDT47K10-1-RH   | 10             | 47                     | 10            | D         | A     |
| MCDT68M10-1-RH   | 10             | 68                     | 20            | E         | A     |
| MCDT100M10-2-RH  | 10             | 100                    | 20            | F         | B     |
| MCDT1K16-1-RH    | 16             | 1.0                    | 10            | A         | A     |
| MCDT2R2K16-1-RH  | 16             | 2.2                    | 10            | A         | A     |
| MCDT3R3K16-1-RH  | 16             | 3.3                    | 10            | A         | A     |
| MCDT4R7K16-1-RH  | 16             | 4.7                    | 10            | A         | A     |
| MCDT10K16-1-RH   | 16             | 10                     | 10            | B         | A     |
| MCDT22K16-1-RH   | 16             | 22                     | 10            | C         | A     |
| MCDT33K16-1-RH   | 16             | 33                     | 10            | D         | A     |
| MCDT47M16-1-RH   | 16             | 47                     | 20            | E         | A     |
| MCDT2R2K25-1-RH  | 25             | 2.2                    | 10            | A         | A     |
| MCDT4R7K25-1-RH  | 25             | 4.7                    | 10            | B         | A     |
| MCDT6R8K25-1-RH  | 25             | 6.8                    | 10            | C         | A     |
| MCDT10K25-1-RH   | 25             | 10                     | 10            | C         | A     |
| MCDT15K25-1-RH   | 25             | 15                     | 10            | D         | A     |
| MCDT22M25-1-RH   | 25             | 22                     | 20            | E         | A     |
| MCDT33M25-2-RH   | 25             | 33                     | 20            | E         | B     |
| MCDT47M25-2-RH   | 25             | 47                     | 20            | F         | B     |
| MCDT68M25-2-RH   | 25             | 68                     | 20            | G         | B     |
| MC DTR10M35-1-RH | 35             | 0.1                    | 20            | A         | A     |
| MC DTR15M35-1-RH | 35             | 0.15                   | 20            | A         | A     |
| MC DTR22M35-1-RH | 35             | 0.22                   | 20            | A         | A     |
| MC DTR47M35-1-RH | 35             | 0.47                   | 20            | A         | A     |
| MC DTR68M35-1-RH | 35             | 0.68                   | 20            | A         | A     |
| MC DT1K35-1-RH   | 35             | 1.0                    | 10            | A         | A     |
| MC DT2R2K35-1-RH | 35             | 2.2                    | 10            | B         | A     |
| MC DT3R3K35-1-RH | 35             | 3.3                    | 10            | C         | A     |
| MC DT4R7K35-1-RH | 35             | 4.7                    | 10            | C         | A     |
| MC DT6R8K35-1-RH | 35             | 6.8                    | 10            | D         | A     |
| MC DT10K35-1-RH  | 35             | 10                     | 10            | D         | A     |
| MC DT15M35-1-RH  | 35             | 15                     | 20            | D         | A     |
| MC DT22M35-2-RH  | 35             | 22                     | 20            | E         | B     |
| MC DT33M35-2-RH  | 35             | 33                     | 20            | F         | B     |
| MC DTR10M50-1-RH | 50             | 0.1                    | 20            | A         | A     |
| MC DTR33M50-1-RH | 50             | 0.33                   | 20            | A         | A     |
| MC DTR47M50-1-RH | 50             | 0.47                   | 20            | A         | A     |
| MC DT2R2K50-1-RH | 50             | 2.2                    | 10            | C         | A     |
| MC DT3R3K50-1-RH | 50             | 3.3                    | 10            | D         | A     |
| MC DT4R7K50-1-RH | 50             | 4.7                    | 10            | E         | A     |
| MC DT6R8M50-2-RH | 50             | 6.8                    | 20            | F         | B     |
| MC DT10M50-2-RH  | 50             | 10                     | 20            | F         | B     |

SPC-F004.DWG

|  |             |            |  |                     |                 |
|--|-------------|------------|--|---------------------|-----------------|
| TOLERANCES:<br>UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY. | DRAWN BY:   | DATE:      | DRAWING TITLE:                           |                     |                 |
|  | EKLAS ODISH | 9/25/08    | Capacitor, Tantalum Electrolytic, Dipped |                     |                 |
|  | CHECKED BY: | DATE:      | SIZE                                     | DWG. NO.            | ELECTRONIC FILE |
|  | Jason Nash  | 04/16/08   | A  | TA-808              | TA-808.DWG      |
| APPROVED BY:   | DATE:       | SCALE: NTS |  | U.O.M.: Millimeters | REV             |
| Jason Nash   | 04/16/08    |            |  | SHEET: 1 OF 2       | A               |

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**Features:**

- Resin-Coated, High performance to standard for general
- For color television, computer, military & consumer instrument and other industrial electronic products application
- Meets the requirements of GB7215-87

**Specification:**

| Item                              | Performance Characteristics   |   |
|-----------------------------------|---|---|
| Operating Temperature             | -55°C ~ +125°C (Max. operating temperature at rated voltage shall be up to 85°C)  |   |
| Dissipation Factor                | test frequency 120Hz<br>0.1 ~ 1μF = 4% Max., 1.5 ~ 6.8μF = 6% Max., 10 ~ 68μF = 8% Max.,<br>100 ~ 220μF = 10% Max., 330μF and up = 12% Max.   |   |
| Leakage Current                   | After 1 Minute application of rated voltage, leakage current at 20°C is not more than 0.01CrUr (μA) or 0.5μA whichever is greater.  | After 1 Minute application of rated voltage, leakage current at 85°C is not more than 0.1CrUr (μA) or 5μA whichever is greater. |
| Capacitance Change by Temperature | +15% Max. @ +125°C<br>+12% Max. @ +85°C<br>-12% Max. @ -55°C  |   |
| Surge Voltage                     | After application of surge voltage in series with a 33Ω resistor at rate voltage of 30 sec "ON" 30 sec "OFF", for 1000 successive test cycles at 85°C capacitance meet the characteristics requirements listed below. |   |
|                                   | Capacitance Change  | Within ±10% of initial value  |
|                                   | Dissipation Factor  | Initial specified value or less   |
|                                   | Leakage Current   | Initial specified value or less   |
| Resistance to solder heat         | After immersing the bottom parts of the capacitor bodies by 2 ~ 2.5 mm in solder pot at 260±5°C for 30 ±0.5 sec.  |   |
|                                   | Capacitance Change  | Within ±3% of initial value   |
|                                   | Dissipation Factor  | Initial specified value or less   |
|                                   | Leakage Current   | Initial specified value or less   |
| Humidity Resistance               | At 40°C, 90 ~ 95% R.H., for 500 hours (no voltage applied). The capacitance meet the requirement listed below.  |   |
|                                   | Capacitance Change  | Within ±12% of initial value  |
|                                   | Dissipation Factor  | Initial specified value or less   |
|                                   | Leakage Current   | Initial specified value or less   |
| Load Life                         | After 1000 hours application of rated voltage in series with 3W resistor at 85°C or derated voltage at 125°C, capacitance meet the characteristics requirements listed below  |   |
|                                   | Capacitance Change  | Within ±10% of initial value  |
|                                   | Dissipation Factor  | Initial specified value or less   |
|                                   | Leakage Current   | 1.25 times Initial specified value or less  |

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SPC-F004.DWG

SIZE DWG. NO.

A

TA-808

ELECTRONIC FILE

TA-808.DWG

REV

A

Doc. No. SPC-F004 \* Effective: 7/8/02 \* DCP No: 1398

SCALE: NTS

U.O.M.: Millimeters

SHEET: 2 OF 2