

# Type T High Voltage Paper-Film/Foil Capacitors

## Paper-Film/Foil Capacitors for High Voltage Filter Applications



Type T capacitors are for high voltage filter applications as well as being used for filtering, bypass and blocking in radar amplifiers and power supplies. The Type T is constructed with a rugged inserted tab to foil connection to 10-32 screw terminals surrounded by thermoset plastic bushings for high voltage performance in an oval, hermetically sealed metal case that will give long operating life under harsh conditions.

### Highlights

- Hermetically sealed
- High Voltage to 5 kVdc
- High Temperature, 105 °C operation with derating

### Specifications

|                        |                                                                                                      |
|------------------------|------------------------------------------------------------------------------------------------------|
| Capacitance Range:     | 0.1 $\mu$ F to 15.0 $\mu$ F                                                                          |
| Voltage Range:         | 600 Vdc to 5000 Vdc                                                                                  |
| Capacitance Tolerance: | $\pm 10\%$                                                                                           |
| Temperature Range:     | -55 °C to 105 °C — Full rated voltage to 85 °C.<br>Derate linearly to 50% rated voltage at max temp. |

### RoHS Compliant

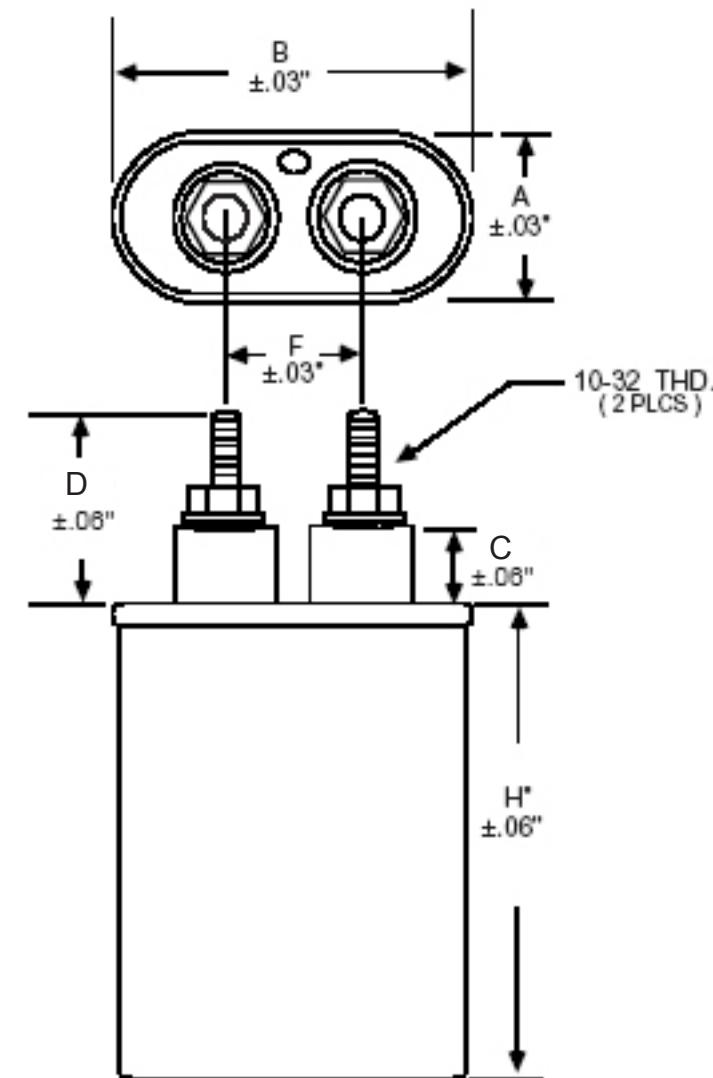
### Ratings

| Cap<br>( $\mu$ F) | Catalog<br>Part Number | Case<br>Code | H<br>(Inches) |
|-------------------|------------------------|--------------|---------------|
| <b>600 Vdc</b>    |                        |              |               |
| 0.5               | T6P5NR-F               | A            | 2.13          |
| 1.0               | T6W1NR-F               | A            | 2.13          |
| 2.0               | T6W2NR-F               | A            | 2.13          |
| 3.0               | T6W3NR-F               | A            | 2.38          |
| 4.0               | T6W4NR-F               | A            | 2.63          |
| 6.0               | T6W6NR-F               | A            | 3.88          |
| 8.0               | T6W8NR-F               | C            | 2.88          |
| 10.0              | T6W10NR-F              | C            | 3.13          |
| 15.0              | T6W15NR-F              | D            | 3.50          |
| <b>1000 Vdc</b>   |                        |              |               |
| 0.10              | T10P1NR-F              | A            | 2.13          |
| 0.25              | T10P25NR-F             | A            | 2.13          |
| 0.50              | T10P5NR-F              | A            | 2.13          |
| 1.0               | T10W1NR-F              | A            | 2.13          |
| 2.0               | T10W2NR-F              | A            | 2.63          |
| 4.0               | T10W4NR-F              | A            | 4.25          |
| 6.0               | T10W6NR-F              | C            | 3.50          |
| 8.0               | T10W8NR-F              | D            | 3.50          |
| 10.0              | T10W10NR-F             | D            | 3.88          |
| 15.0              | T10W15NR-F             | D            | 5.25          |
| <b>1500 Vdc</b>   |                        |              |               |
| 0.5               | T15P5NR-F              | A            | 2.13          |
| 1.0               | T15W1NR-F              | A            | 2.13          |
| 2.0               | T15W2NR-F              | A            | 3.13          |
| 4.0               | T15W4NR-F              | C            | 3.13          |
| 6.0               | T15W6NR-F              | D            | 3.88          |
| 8.0               | T15W8NR-F              | D            | 4.25          |

| Cap<br>( $\mu$ F) | Catalog<br>Part Number | Case<br>Code | H<br>(Inches) |
|-------------------|------------------------|--------------|---------------|
| <b>1500 Vdc</b>   |                        |              |               |
| 10.0              | T15W10NR-F             | D            | 4.75          |
| 12.0              | T15W12NR-F             | D            | 5.25          |
| 15.0              | T15W15NR-F             | D            | 6.25          |
| <b>2000 Vdc</b>   |                        |              |               |
| 0.10              | T20P1NR-F              | A            | 2.13          |
| 0.25              | T20P25NR-F             | A            | 2.13          |
| 0.50              | T20P5NR-F              | A            | 2.13          |
| 1.0               | T20W1NR-F              | A            | 2.63          |
| 2.0               | T20W2NR-F              | C            | 2.88          |
| 4.0               | T20W4NR-F              | D            | 3.50          |
| 5.0               | T20W5NR-F              | D            | 4.25          |
| 8.0               | T20W8NR-F              | D            | 5.75          |
| 10.0              | T20W10NR-F             | D            | 6.75          |
| 15.0              | T20W15NR-F             | D            | 9.88          |
| <b>2500 Vdc</b>   |                        |              |               |
| 1.0               | T25W1NR-F              | C            | 2.88          |
| 2.0               | T25W2NR-F              | C            | 3.13          |
| 4.0               | T25W4NR-F              | D            | 4.25          |
| <b>3000 Vdc</b>   |                        |              |               |
| .10               | T30P1NR-F              | A            | 2.13          |
| .50               | T30P5NR-F              | A            | 3.13          |
| 1.0               | T30W1NR-F              | C            | 3.13          |
| 6.0               | T30W6NR-F              | D            | 8.00          |
| <b>5000 Vdc</b>   |                        |              |               |
| .50               | T50P5NR-F              | C            | 3.50          |
| 1.0               | T50W1NR-F              | D            | 4.25          |
| 2.0               | T50W2NR-F              | D            | 7.25          |

# Type T High Voltage Paper-Film/Foil Capacitors

## Outline Drawing



| Case Code | Dimensions (Inches) |      |      |      |      |
|-----------|---------------------|------|------|------|------|
|           | A                   | B    | C    | D    | F    |
| A         | 1.31                | 2.16 | 0.56 | 1.06 | 0.81 |
| C         | 1.91                | 2.91 | 0.50 | 1.00 | 1.38 |
| D         | 1.97                | 3.66 | 0.50 | 1.00 | 1.38 |

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