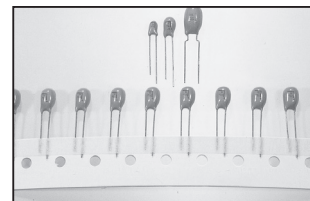




ROHS/REACH  
COMPLIANT  
HALOGEN FREE

- FLUIDIZED BED PROCESS
- NEW REDUCED SIZES
- FLAME RETARDANT COATING
- LOW LEAKAGE CURRENT AND IMPEDANCE
- EXCEPTIONAL TEMPERATURE STABILITY



|                                               |                                                                           |     |    |               |    |    |    |
|-----------------------------------------------|---------------------------------------------------------------------------|-----|----|---------------|----|----|----|
| Capacitance Range                             | 0.1μF ~ 330μF                                                             |     |    |               |    |    |    |
| Capacitance Tolerance                         | ±20% (M), ±10% (K)                                                        |     |    |               |    |    |    |
| Temperature Range:                            | -55°C ~ +85°C (+125°C with Derating)                                      |     |    |               |    |    |    |
| Rated Voltage Range (Vdc) +85°C               | 6.3                                                                       | 10  | 16 | 20            | 25 | 35 | 50 |
| Derated Voltage (Vdc) +125°C                  | 4                                                                         | 6.3 | 10 | 13            | 16 | 23 | 33 |
| Surge Voltage (Vdc) +85°C                     | 8                                                                         | 13  | 20 | 26            | 33 | 46 | 65 |
| Derated Surge Voltage (Vdc) +125°C            | 5                                                                         | 9   | 12 | 16            | 21 | 28 | 40 |
| Dissipation Factor:<br>(120Hz, +25°C<br>Tan δ | Capacitance Range                                                         |     |    | Tan δ         |    |    |    |
|                                               | 0.1 ~ 1.5μF                                                               |     |    | Less than 4%  |    |    |    |
|                                               | 2.2 ~ 6.8μF                                                               |     |    | Less than 6%  |    |    |    |
|                                               | 10 ~ 68μF                                                                 |     |    | Less than 8%  |    |    |    |
|                                               | 100 ~ 330μF                                                               |     |    | Less than 10% |    |    |    |
| Reliability:                                  | 1%/1000 hours at +85°C with 0.1Ω/V series impedance, 60% confidence level |     |    |               |    |    |    |

NDTM 106 K 16 F2 TR E

- RoHS compliant
- Tape and Reel (optional)
- Special Lead Forming (F2 = 5.0mm LS)
- Working Voltage
- Tolerance Code M=20%, K=10%
- Capacitance Code in pF, first 2 digits are significant, third digit is no. of zeros
- Series

# NDTM Series

## Radial Tantalum Electrolytic Capacitors



### STANDARD PART NUMBERS\*

| Part Number  | Voltage (VDC)** | Cap. (μF) | Max. ESR (Ω) | Max. Leakage Current (μA) | Max. Dissipation Factor | Diameter (mm) | Height (mm) | Lead-Space (mm) | Lead Configuration |
|--------------|-----------------|-----------|--------------|---------------------------|-------------------------|---------------|-------------|-----------------|--------------------|
| NDTM335K6.3F | 6.3V            | 3.3       | 13.0         | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM475K6.3F |                 | 4.7       | 10.0         | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM685K6.3F |                 | 6.8       | 8.0          | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM106K6.3F |                 | 10        | 6.0          | 0.5                       | 8%                      | 4.5           | 7.5         | 2.5             | 1                  |
| NDTM156K6.3F |                 | 15        | 5.0          | 0.8                       | 8%                      | 5.0           | 8.5         | 2.5             | 1                  |
| NDTM226K6.3F |                 | 22        | 3.7          | 1.1                       | 8%                      | 5.0           | 9.0         | 2.5             | 1                  |
| NDTM336K6.3F |                 | 33        | 3.0          | 1.7                       | 8%                      | 5.5           | 9.0         | 2.5             | 1                  |
| NDTM476K6.3F |                 | 47        | 2.0          | 2.4                       | 8%                      | 6.0           | 10.0        | 2.5             | 1                  |
| NDTM686K6.3F |                 | 68        | 1.8          | 3.4                       | 8%                      | 6.5           | 10.0        | 2.5             | 1                  |
| NDTM107K6.3F |                 | 100       | 1.6          | 5.0                       | 10%                     | 7.0           | 10.5        | 2.5             | 1                  |
| NDTM157K6.3F |                 | 150       | 0.9          | 7.6                       | 10%                     | 8.5           | 14.0        | 5.0             | 1                  |
| NDTM227K6.3F |                 | 220       | 0.9          | 11.0                      | 10%                     | 9.0           | 14.5        | 5.0             | 1                  |
| NDTM337K6.3F |                 | 330       | 0.7          | 16.6                      | 10%                     | 10.0          | 17.0        | 5.0             | 1                  |
| NDTM225K10F  | 10V             | 2.2       | 13.0         | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM335K10F  |                 | 3.3       | 10.0         | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM475K10F  |                 | 4.7       | 8.0          | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM685K10F  |                 | 6.8       | 6.0          | 0.5                       | 6%                      | 4.5           | 7.5         | 2.5             | 1                  |
| NDTM106K10F  |                 | 10        | 5.0          | 0.8                       | 8%                      | 5.0           | 8.5         | 2.5             | 1                  |
| NDTM156K10F  |                 | 15        | 3.7          | 1.2                       | 8%                      | 5.0           | 9.0         | 2.5             | 1                  |
| NDTM226K10F  |                 | 22        | 2.7          | 1.7                       | 8%                      | 5.5           | 9.0         | 2.5             | 1                  |
| NDTM336K10F  |                 | 33        | 2.1          | 2.6                       | 8%                      | 6.0           | 10.0        | 2.5             | 1                  |
| NDTM476K10F  |                 | 47        | 1.7          | 3.7                       | 8%                      | 6.5           | 10.0        | 2.5             | 1                  |
| NDTM686K10F  |                 | 68        | 1.3          | 5.4                       | 8%                      | 7.0           | 10.5        | 2.5             | 1                  |
| NDTM107K10F  |                 | 100       | 1.0          | 8.0                       | 10%                     | 8.5           | 14.0        | 5.0             | 2                  |
| NDTM157K10F  |                 | 150       | 0.8          | 12.0                      | 10%                     | 9.0           | 16.0        | 5.0             | 2                  |
| NDTM227K10F  |                 | 220       | 0.6          | 17.6                      | 10%                     | 10.0          | 17.0        | 5.0             | 2                  |
| NDTM337K10F  |                 | 330       | 0.5          | 20.0                      | 10%                     | 10.0          | 18.5        | 5.0             | 2                  |
| NDTM155K16F  | 16V             | 1.5       | 10.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM225K16F  |                 | 2.2       | 8.0          | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM335K16F  |                 | 3.3       | 6.0          | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM475K16F  |                 | 4.7       | 5.0          | 0.6                       | 6%                      | 4.5           | 7.5         | 2.5             | 1                  |
| NDTM685K16F  |                 | 6.8       | 4.0          | 0.6                       | 6%                      | 5.0           | 8.5         | 2.5             | 1                  |
| NDTM106K16F  |                 | 10        | 3.2          | 1.2                       | 8%                      | 5.0           | 9.0         | 2.5             | 1                  |
| NDTM156K16F  |                 | 15        | 2.5          | 1.9                       | 8%                      | 5.5           | 9.0         | 2.5             | 1                  |
| NDTM226K16F  |                 | 22        | 2.0          | 2.8                       | 8%                      | 6.0           | 10.0        | 2.5             | 1                  |
| NDTM336K16F  |                 | 33        | 1.6          | 4.2                       | 8%                      | 6.0           | 10.0        | 2.5             | 1                  |
| NDTM476K16F  |                 | 47        | 1.3          | 6.0                       | 8%                      | 8.0           | 13.0        | 2.5             | 1                  |
| NDTM686K16F  |                 | 68        | 1.0          | 8.7                       | 8%                      | 9.0           | 14.0        | 5.0             | 2                  |
| NDTM107K16F  |                 | 100       | 0.8          | 12.8                      | 10%                     | 9.0           | 16.0        | 5.0             | 2                  |
| NDTM157K16F  |                 | 150       | 0.6          | 19.2                      | 10%                     | 9.0           | 16.0        | 5.0             | 2                  |
| NDTM227K16F  |                 | 220       | 0.5          | 20                        | 10%                     | 10.0          | 18.5        | 5.0             | 2                  |
| NDTM105K20F  | 20V             | 1.0       | 10.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM155K20F  |                 | 1.5       | 9.0          | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM225K20F  |                 | 2.2       | 7.0          | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM335K20F  |                 | 3.3       | 5.5          | 0.5                       | 6%                      | 4.5           | 7.5         | 2.5             | 1                  |
| NDTM475K20F  |                 | 4.7       | 4.5          | 0.7                       | 6%                      | 5.0           | 8.5         | 2.5             | 1                  |
| NDTM685K20F  |                 | 6.8       | 3.6          | 0.7                       | 6%                      | 5.0           | 9.0         | 2.5             | 1                  |
| NDTM106K20F  |                 | 10        | 2.9          | 1.6                       | 8%                      | 5.5           | 9.0         | 2.5             | 1                  |
| NDTM156K20F  |                 | 15        | 2.4          | 2.4                       | 8%                      | 6.0           | 10.0        | 2.5             | 1                  |
| NDTM226K20F  |                 | 22        | 1.8          | 3.5                       | 8%                      | 7.0           | 10.5        | 2.5             | 1                  |
| NDTM336K20F  |                 | 33        | 1.4          | 5.2                       | 8%                      | 8.0           | 13.0        | 2.5             | 1                  |
| NDTM476K20F  |                 | 47        | 1.2          | 7.5                       | 8%                      | 8.5           | 14.0        | 5.0             | 2                  |
| NDTM686K20F  |                 | 68        | 0.9          | 10.8                      | 8%                      | 9.0           | 16.0        | 5.0             | 2                  |
| NDTM107K20F  |                 | 100       | 0.6          | 16.0                      | 10%                     | 9.0           | 16.0        | 5.0             | 2                  |
| NDTM105K25F  | 25V             | 1.0       | 10.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM155K25F  |                 | 1.5       | 8.0          | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM225K25F  |                 | 2.2       | 6.0          | 0.5                       | 6%                      | 4.5           | 7.0         | 2.5             | 1                  |
| NDTM335K25F  |                 | 3.3       | 5.0          | 0.6                       | 6%                      | 4.5           | 7.5         | 2.5             | 1                  |
| NDTM475K25F  |                 | 4.7       | 4.0          | 0.9                       | 6%                      | 5.0           | 8.5         | 2.5             | 1                  |

\*Also available in 20% tolerance (tolerance code "M"). Contact NIC for availability.

\*\*See voltage de-rating guide at: <http://www.niccomp.com/help/techinfo/NTCVoltDerat71399.pdf>

### Performance Passives By Design

NIC Components Corp.  
1 Huntington Quadrangle, Suite 1C10. Melville, NY 11747

Page 2  
[www.niccomp.com](http://www.niccomp.com)

# NDTM Series

## Radial Tantalum Electrolytic Capacitors



### STANDARD PART NUMBERS\*

| Part Number | Voltage (VDC)** | Cap. (μF) | Max. ESR (Ω) | Max. Leakage Current (μA) | Max. Dissipation Factor | Diameter (mm) | Height (mm) | Lead-Space (mm) |   |
|-------------|-----------------|-----------|--------------|---------------------------|-------------------------|---------------|-------------|-----------------|---|
| NDTM685K25F | 25V             | 6.8       | 3.1          | 0.9                       | 6%                      | 5.0           | 9.0         | 2.5             | 1 |
| NDTM106K25F |                 | 10        | 2.5          | 2.0                       | 8%                      | 5.5           | 9.0         | 2.5             | 1 |
| NDTM156K25F |                 | 15        | 2.0          | 3.0                       | 8%                      | 6.0           | 10.0        | 2.5             | 1 |
| NDTM226K25F |                 | 22        | 1.5          | 4.4                       | 8%                      | 7.0           | 10.5        | 2.5             | 1 |
| NDTM336K25F |                 | 33        | 1.2          | 6.6                       | 8%                      | 8.0           | 13.0        | 2.5             | 1 |
| NDTM476K25F |                 | 47        | 1.0          | 9.4                       | 8%                      | 9.0           | 14.5        | 5.0             | 2 |
| NDTM686K25F |                 | 68        | 0.6          | 13.5                      | 8%                      | 9.0           | 16.0        | 5.0             | 2 |
| NDTM104K35F | 35V             | 0.1       | 26.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM154K35F |                 | 0.15      | 21.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM224K35F |                 | 0.22      | 17.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM334K35F |                 | 0.33      | 15.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM474K35F |                 | 0.47      | 13.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM684K35F |                 | 0.68      | 10.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM105K35F |                 | 1.0       | 8.0          | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM155K35F |                 | 1.5       | 6.0          | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM225K35F |                 | 2.2       | 5.0          | 0.6                       | 6%                      | 4.5           | 7.5         | 2.5             | 1 |
| NDTM335K35F |                 | 3.3       | 4.0          | 0.9                       | 6%                      | 5.0           | 8.5         | 2.5             | 1 |
| NDTM475K35F |                 | 4.7       | 3.0          | 1.3                       | 6%                      | 5.5           | 9.0         | 2.5             | 1 |
| NDTM685K35F |                 | 6.8       | 2.5          | 1.3                       | 6%                      | 6.0           | 10.0        | 2.5             | 1 |
| NDTM106K35F |                 | 10        | 2.0          | 2.8                       | 8%                      | 6.0           | 10.0        | 2.5             | 1 |
| NDTM156K35F |                 | 15        | 1.6          | 4.2                       | 8%                      | 7.0           | 10.5        | 2.5             | 1 |
| NDTM226K35F |                 | 22        | 1.3          | 6.1                       | 8%                      | 8.5           | 14.0        | 5.0             | 2 |
| NDTM336K35F |                 | 33        | 1.0          | 9.2                       | 8%                      | 9.0           | 14.5        | 5.0             | 2 |
| NDTM476K35F |                 | 47        | 0.8          | 10.0                      | 8%                      | 9.0           | 16.0        | 5.0             | 2 |
| NDTM104K50F |                 | 0.1       | 26.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM154K50F |                 | 0.15      | 21.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM224K50F |                 | 0.22      | 17.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM334K50F |                 | 0.33      | 15.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM474K50F |                 | 0.47      | 13.0         | 0.5                       | 4%                      | 4.5           | 7.0         | 2.5             | 1 |
| NDTM684K50F | 50V             | 0.68      | 10.0         | 0.5                       | 4%                      | 4.5           | 7.5         | 2.5             | 1 |
| NDTM105K50F |                 | 1.0       | 8.0          | 0.5                       | 4%                      | 5.0           | 8.5         | 2.5             | 1 |
| NDTM155K50F |                 | 1.5       | 6.0          | 0.5                       | 4%                      | 5.0           | 9.0         | 2.5             | 1 |
| NDTM225K50F |                 | 2.2       | 3.5          | 0.8                       | 6%                      | 5.5           | 9.0         | 2.5             | 1 |
| NDTM335K50F |                 | 3.3       | 3.0          | 1.3                       | 6%                      | 6.0           | 10.0        | 2.5             | 1 |
| NDTM475K50F |                 | 4.7       | 2.5          | 1.8                       | 6%                      | 6.5           | 10.0        | 2.5             | 1 |
| NDTM685K50F |                 | 6.8       | 2.0          | 1.8                       | 6%                      | 7.0           | 10.5        | 2.5             | 1 |
| NDTM106K50F |                 | 10        | 1.6          | 4.0                       | 8%                      | 8.0           | 13.0        | 2.5             | 1 |
| NDTM156K50F |                 | 15        | 1.2          | 6.0                       | 8%                      | 8.5           | 14.0        | 5.0             | 2 |
| NDTM226K50F |                 | 22        | 1.0          | 8.8                       | 8%                      | 9.0           | 14.0        | 5.0             | 2 |

\*Also available in 20% tolerance (tolerance code "M"). Contact NIC for availability.

\*\*See voltage de-rating guide at: <http://www.niccomp.com/help/techinfo/NTCVoltDerat71399.pdf>

# NDTM Series

## Radial Tantalum Electrolytic Capacitors

### DIMENSIONS (mm)

| Diameter   | Figure and Part #        | Lead Spacing | Lead Length | Lead Diameter (d) |
|------------|--------------------------|--------------|-------------|-------------------|
| 4.5 ~ 8.0  | 1<br>Standard            | 2.5 ± 0.5    | 16 ± 4.0    | 0.5 ± 0.05        |
| 4.5 ~ 8.0  | 2<br>Optional (F2) Style | 5.0 ± 1.0    | 16 ± 4.0    | 0.5 ± 0.05        |
| 8.5 ~ 10.0 | 2<br>Standard            | 5.0 ± 1.0    | 16 ± 4.0    | 0.5 ± 0.05        |

### STANDARD PRODUCTS AND CASE SIZE TABLE D $\phi$ X H (mm)

| Maximum Leakage Current ( $\mu$ A) @ 25°C after 3 minutes |      |                     |           |           |          |          |          |          |
|-----------------------------------------------------------|------|---------------------|-----------|-----------|----------|----------|----------|----------|
| Cap.<br>( $\mu$ F)                                        | Code | Rated Voltage (Vdc) |           |           |          |          |          |          |
|                                                           |      | 6.3V                | 10V       | 16V       | 20V      | 25V      | 35V      | 50V      |
| 0.1                                                       | 104  | -                   | -         | -         | -        | -        | 4.5x7.0  | 4.5x7.0  |
| 0.15                                                      | 154  | -                   | -         | -         | -        | -        | 4.5x7.0  | 4.5x7.0  |
| 0.22                                                      | 224  | -                   | -         | -         | -        | -        | 4.5x7.0  | 4.5x7.0  |
| 0.33                                                      | 334  | -                   | -         | -         | -        | -        | 4.5x7.0  | 4.5x7.0  |
| 0.47                                                      | 474  | -                   | -         | -         | -        | -        | 4.5x7.0  | 4.5x7.0  |
| 0.68                                                      | 684  | -                   | -         | -         | -        | -        | 4.5x7.0  | 4.5x7.5  |
| 1.0                                                       | 105  | -                   | -         | -         | 4.5x7.0  | 4.5x7.0  | 4.5x7.0  | 5.0x8.5  |
| 1.5                                                       | 155  | -                   | -         | 4.5x7.0   | 4.5x7.0  | 4.5x7.0  | 4.5x7.0  | 5.0x9.0  |
| 2.2                                                       | 225  | -                   | 4.5x7.0   | 4.5x7.0   | 4.5x7.0  | 4.5x7.0  | 4.5x7.5  | 5.5x9.0  |
| 3.3                                                       | 335  | 4.5x7.0             | 4.5x7.0   | 4.5x7.0   | 4.5x7.5  | 4.5x7.5  | 5.0x8.5  | 6.0x10.0 |
| 4.7                                                       | 475  | 4.5x7.0             | 4.5x7.0   | 4.5x7.5   | 5.0x8.5  | 5.0x8.5  | 5.5x9.0  | 6.5x10.0 |
| 6.8                                                       | 685  | 4.5x7.0             | 4.5x7.5   | 5.0x8.5   | 5.0x9.0  | 5.0x9.0  | 6.0x10.0 | 7.0x10.5 |
| 10                                                        | 106  | 4.5x7.5             | 5.0x8.5   | 5.0x9.0   | 5.5x9.0  | 5.5x9.0  | 6.0x10.0 | 8.0x13   |
| 15                                                        | 156  | 5.0x8.5             | 5.0x9.0   | 5.5x9.0   | 6.0x10.0 | 6.0x10.0 | 7.0x10.5 | 8.5x14.0 |
| 22                                                        | 226  | 5.0x9.0             | 5.5x9.0   | 6.0x10.0  | 7.0x10.5 | 7.0x10.5 | 8.5x14.0 | 9.0x14.0 |
| 33                                                        | 336  | 5.5x9.0             | 6.0x10.0  | 6.0x10.0  | 8.0x13.0 | 8.0x13.0 | 9.0x14.5 | -        |
| 47                                                        | 476  | 6.0x10.0            | 6.5x10.0  | 8.0x13.0  | 8.5x14.0 | 9.0x14.5 | 9.0x16.0 | -        |
| 68                                                        | 686  | 6.5x10.0            | 7.0x10.5  | 9.0x14.0  | 9.0x16.0 | 9.0x16.0 | -        | -        |
| 100                                                       | 107  | 7.0x10.5            | 8.5x14.0  | 9.0x16.0  | 9.0x16.0 | -        | -        | -        |
| 150                                                       | 157  | 8.5x14.0            | 9.0x16.0  | 9.0x16.0  | -        | -        | -        | -        |
| 220                                                       | 227  | 9.0x14.5            | 10.0x17.0 | 10.0x18.5 | -        | -        | -        | -        |
| 330                                                       | 337  | 10.0x17.0           | 10.0x18.5 | -         | -        | -        | -        | -        |

### OUTLINE DRAWINGS AND DIMENSIONS

**MARKING:** (Note:  $\mu$  represents decimal point for values below 1 $\mu$ F)

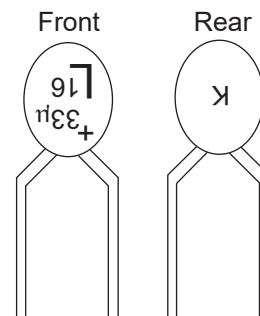


FIG. 1

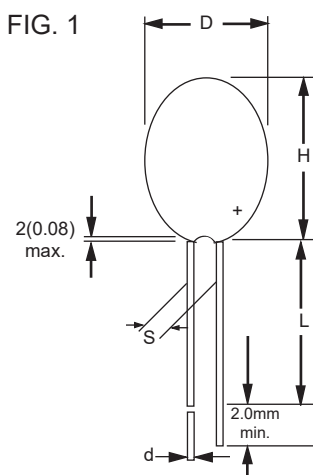
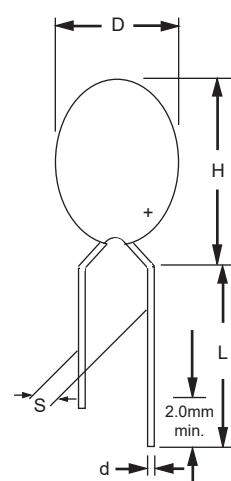


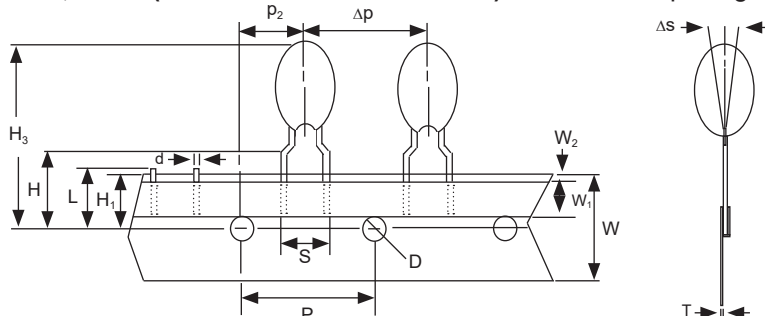
FIG. 2



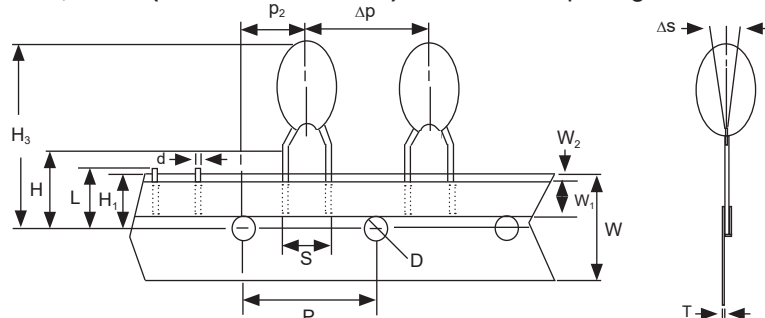
# NDTM Series

## Radial Tantalum Electrolytic Capacitors

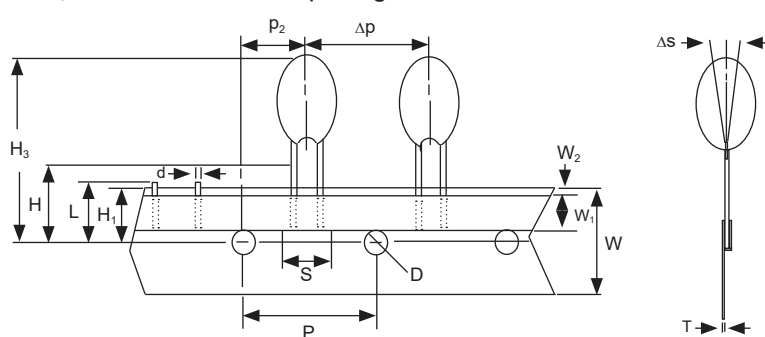
### F2TR, F2TB (UNDER 8.0mm DIAMETER) 5.0mm lead spacing.



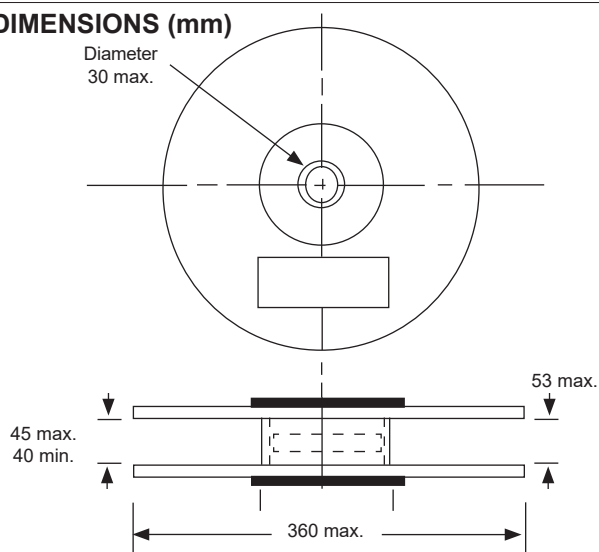
### F2TR, F2TB (8.0mm AND OVER) 5.0mm lead spacing.



### F1TR, F1TB 2.5mm lead spacing.



### REEL DIMENSIONS (mm)



### TAPING DIMENSIONS (mm)

| Code           | Dimensions                           |
|----------------|--------------------------------------|
| P              | 12.7 ± 0.3                           |
| P <sub>1</sub> | 5.5 ± 1.0                            |
| P <sub>2</sub> | 6.35 ± 0.4                           |
| ΔP             | ±1.0                                 |
| d              | 0.5 ± 0.05                           |
| S              | F2TR, F2TB = 5.0<br>F1TR, F1TB = 2.5 |
| Δh             | ±2.0                                 |
| D              | 4.0 ± 0.2                            |
| W              | 18 <sup>+1.0</sup> <sub>-0.5</sub>   |
| W <sub>1</sub> | 6.0 min.                             |
| W <sub>2</sub> | 1.0 max.                             |
| H              | 16.0 ± 0.5<br>19.0 ± 1.0             |
| H <sub>1</sub> | 9.0 ± 0.5                            |
| H <sub>2</sub> | 18.0                                 |
| H <sub>3</sub> | 32.25                                |
| L              | 11.0 max.                            |
| T              | 0.7 ± 0.2                            |

Parts with diameters up to 9.0mm are available packaged on tape. Larger diameter parts are bulk only.

### PACKAGING QUANTITIES

| Case Size  | Reel        | Ammo |
|------------|-------------|------|
| 4.5 x 7.0  | 1000 ~ 1500 | 3000 |
| 4.5 x 7.5  | 1000 ~ 1250 | 3000 |
| 5.0 x 8.5  | 1000 ~ 1250 | 3000 |
| 5.0 x 9.0  | 1000 ~ 1250 | 3000 |
| 5.5 x 9.0  | 1000        | 2500 |
| 6.0 x 10.0 | 1000        | 2500 |
| 6.5 x 10.0 | 750         | 2500 |
| 7.0 x 10.5 | 750         | 2500 |
| 8.0 x 13.0 | 750         | -    |
| 8.5 x 14.0 | 750         | -    |
| 9.0 x 14.0 | 500         | -    |
| 9.0 x 14.5 | 500         | -    |