



NX5 SERIES (T3M)

10 to 50kV

High Voltage Ceramic Capacitors

Features

- Compact Size
- Low Dissipation Factor
- Low Voltage Coefficient
- Epoxy Encapsulation
- T3M Temperature Characteristics



Specifications

| Part Number ¹ | C pF | Tolerance ¹ ±% | V _{RATE} kVDC | V _{WITHSTAND} kVDC | D ² mm | H ³ mm | L ⁴ mm | Terminal Type |
|--------------------------|------|---------------------------|------------------------|-----------------------------|-------------------|-------------------|-------------------|---------------|
| NX5T3M561•10KV | 560 | K,M,Z | 10.0 | 15.0 | 20.0 | 12.0 | 16.0 | M4x4 |
| NX5T3M122•10KV | 1200 | K,M,Z | 10.0 | 15.0 | 24.0 | 12.0 | 16.0 | M4x4 |
| NX5T3M282•10KV | 2800 | K,M,Z | 10.0 | 15.0 | 38.0 | 12.0 | 16.0 | M4x4 |
| NX5T3M502•10KV | 5000 | K,M,Z | 10.0 | 15.0 | 52.0 | 12.0 | 16.0 | M5x4 |
| NX5T3M802•10KV | 8000 | K,M,Z | 10.0 | 15.0 | 58.0 | 12.0 | 16.0 | M5x4 |
| NX5T3M371•15KV | 370 | K,M,Z | 15.0 | 22.5 | 20.0 | 14.0 | 18.0 | M4x4 |
| NX5T3M112•15KV | 1100 | K,M,Z | 15.0 | 22.5 | 30.0 | 14.0 | 18.0 | M4x4 |
| NX5T3M192•15KV | 1900 | K,M,Z | 15.0 | 22.5 | 38.0 | 14.0 | 18.0 | M4x4 |
| NX5T3M342•15KV | 3400 | K,M,Z | 15.0 | 22.5 | 52.0 | 14.0 | 18.0 | M5x4 |
| NX5T3M532•15KV | 5300 | K,M,Z | 15.0 | 22.5 | 58.0 | 14.0 | 18.0 | M5x4 |
| NX5T3M281•20KV | 280 | K,M,Z | 20.0 | 30.0 | 20.0 | 20.0 | 24.0 | M4x5 |
| NX5T3M881•20KV | 880 | K,M,Z | 20.0 | 30.0 | 30.0 | 20.0 | 24.0 | M4x5 |
| NX5T3M142•20KV | 1400 | K,M,Z | 20.0 | 30.0 | 38.0 | 20.0 | 24.0 | M4x5 |
| NX5T3M252•20KV | 2500 | K,M,Z | 20.0 | 30.0 | 52.0 | 20.0 | 24.0 | M5x5 |
| NX5T3M402•20KV | 4000 | K,M,Z | 20.0 | 30.0 | 58.0 | 20.0 | 24.0 | M5x5 |
| NX5T3M191•30KV | 190 | K,M,Z | 30.0 | 45.0 | 20.0 | 24.0 | 28.0 | M4x5 |
| NX5T3M591•30KV | 590 | K,M,Z | 30.0 | 45.0 | 30.0 | 24.0 | 28.0 | M4x5 |
| NX5T3M941•30KV | 940 | K,M,Z | 30.0 | 45.0 | 38.0 | 24.0 | 28.0 | M4x5 |
| NX5T3M102•30KV | 1000 | K,M,Z | 30.0 | 45.0 | 40.0 | 26.0 | 30.0 | M5x5 |
| NX5T3M172•30KV | 1700 | K,M,Z | 30.0 | 45.0 | 52.0 | 24.0 | 28.0 | M5x5 |
| NX5T3M202•30KV | 2000 | K,M,Z | 30.0 | 45.0 | 48.0 | 21.0 | 25.0 | M5x5 |
| NX5T3M272•30KV | 2700 | K,M,Z | 30.0 | 45.0 | 58.0 | 24.0 | 28.0 | M5x5 |
| NX5T3M502•30KV | 5000 | K,M,Z | 30.0 | 45.0 | 70.0 | 21.0 | 25.0 | M5x5 |
| NX5T3M141•40KV | 140 | K,M,Z | 40.0 | 60.0 | 20.0 | 32.0 | 36.0 | M4x6 |
| NX5T3M441•40KV | 440 | K,M,Z | 40.0 | 60.0 | 30.0 | 32.0 | 36.0 | M4x6 |
| NX5T3M561•40KV | 560 | K,M,Z | 40.0 | 60.0 | 38.0 | 26.0 | 30.0 | M5x5 |
| NX5T3M701•40KV | 700 | K,M,Z | 40.0 | 60.0 | 38.0 | 32.0 | 36.0 | M4x6 |
| NX5T3M132•40KV | 1300 | K,M,Z | 40.0 | 60.0 | 52.0 | 32.0 | 36.0 | M5x6 |
| NX5T3M172•40KV | 1700 | K,M,Z | 40.0 | 60.0 | 52.0 | 26.0 | 30.0 | M5x5 |
| NX5T3M202•40KV | 2000 | K,M,Z | 40.0 | 60.0 | 60.0 | 30.0 | 34.0 | M5x6 |
| NX5T3M302•40KV | 3000 | K,M,Z | 40.0 | 60.0 | 70.0 | 28.0 | 32.0 | M5x5 |
| NX5T3M101•50KV | 100 | K,M,Z | 50.0 | 75.0 | 20.0 | 35.0 | 39.0 | M4x6 |
| NX5T3M201•50KV | 200 | K,M,Z | 50.0 | 75.0 | 24.0 | 35.0 | 39.0 | M4x6 |
| NX5T3M401•50KV | 400 | K,M,Z | 50.0 | 75.0 | 30.0 | 35.0 | 39.0 | M4x6 |
| NX5T3M561•50KV | 560 | K,M,Z | 50.0 | 75.0 | 38.0 | 35.0 | 39.0 | M4x6 |



| Part Number ¹ | C pF | Tolerance ¹ ±% | V _{RATE} kVDC | V _{WITHSTAND} kVDC | D ² mm | H ³ mm | L ⁴ mm | Terminal Type |
|--------------------------|------|---------------------------|------------------------|-----------------------------|-------------------|-------------------|-------------------|---------------|
| NX5T3M102•50KV | 1000 | 10 | 50.0 | 75.0 | 48.0 | 32.0 | 36.0 | M5x5 |
| NX5T3M112•50KV | 1100 | 10 | 50.0 | 75.0 | 52.0 | 35.0 | 39.0 | M5x6 |
| NX5T3M172•50KV | 1700 | 10 | 50.0 | 75.0 | 58.0 | 35.0 | 39.0 | M5x6 |

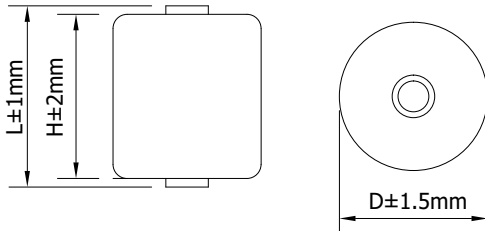
¹NX5T3M models are offered with K (± 10%), M (± 20%), and Z (+80%, -20%) capacitance tolerances. Substitute the “•” in the part number with the preferred tolerance. Inquire for additional information.

²D has a ±1.5mm tolerance.

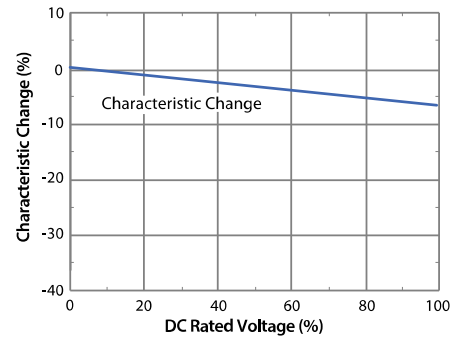
³H has a ±2.0mm tolerance.

⁴L has a ±1.0mm tolerance.

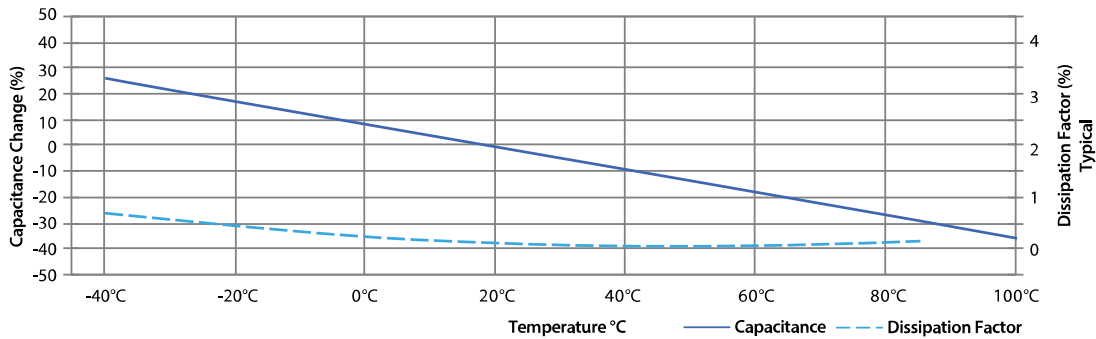
Drawings and Characteristics



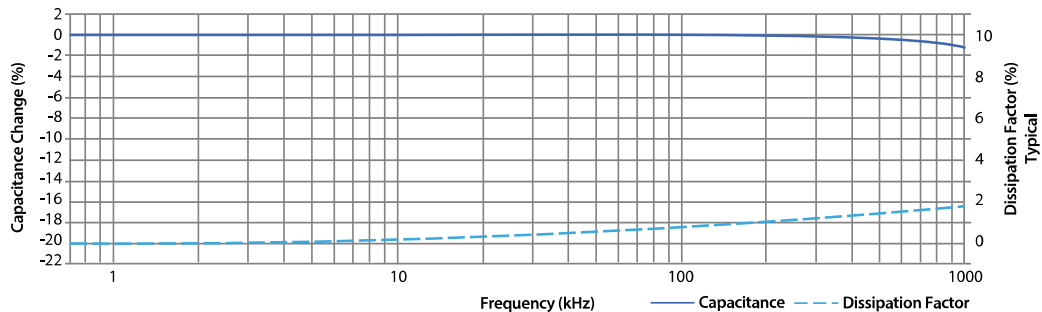
T3M (N4700) TYPICAL VOLTAGE COEFFICIENT



T3M TYPICAL TEMPERATURE CHARACTERISTICS CURVE

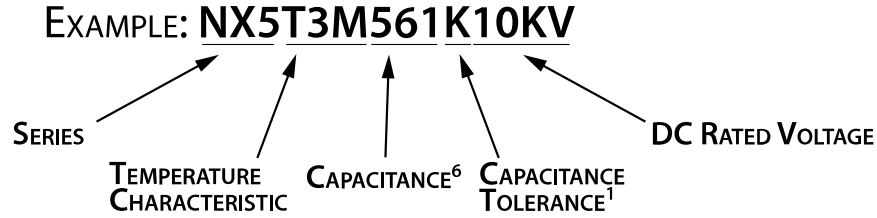


T3M FREQUENCY CHARACTERISTICS CURVE





Part Number Decoder:



⁶Capacitance decoder:

For capacitance values less than 10pF, digits before the “R” are significant digits, while digits after the “R” are the decimal values after the significant digits. For example, 4R7 = 4.7pF, since the 4 is the significant digit while the 7 is the digit after the decimal.

For capacitance values 100pF and higher, the first and second digits are significant digits, while the third digit expresses the number of zeros to follow the two significant digits. For example, 152 = 1500pF, since the 1 and the 5 are the significant digits with 2 zeros that follow.

Additional Specifications

| Specifications | |
|------------------------------------|---------------|
| Operating Temperature Range | -25 to +100°C |
| Temperature Coefficient | -25 to +85°C |
| Dissipation Factor | 1.0% Max |

Note: Specifications subject to change without notice. Photo is representation only.

