

**Issue Date:** November 22nd, 2024

**Subject:** NMC-T End of Life Notification

**Notification Type:** End of Life

**Effected NIC Products:** NMC-T Series

**Effective Date:** November 22nd, 2024

**Description:** Due to low market demand NIC is discontinuing the NMC-T series of surface mount ceramic capacitors.

Effective Date: November 22nd, 2024

Last Order Date: May 22nd, 2025 for established customers with existing business

Last Ship Date: November 22nd, 2025 for established customers with existing business

| EOL Part Number              | Dielectric | Case Size | Cap. (uF) | Tol. | Voltage | Possible Alternative    | Comments                     |
|------------------------------|------------|-----------|-----------|------|---------|-------------------------|------------------------------|
| NMC-T0402X7R104K16TRPR33F    | X7R        | 0402      | 100000    | 10%  | 16      | NMC0402X7R104K16TRPF    | Higher Profile               |
| NMC-T0603X5R224K10TRPR60F    | X5R        | 0603      | 220000    | 10%  | 10      | NMC0603X5R224K10TRPF    | Higher Profile               |
| NMC-T0603X5R224M10TRPR60F    | X5R        | 0603      | 220000    | 20%  | 10      | NMC0603X5R224M10TRPF    | Higher Profile               |
| NMC-T0603X5R105K10TRPR60F    | X5R        | 0603      | 1000000   | 10%  | 10      | NMC0603X5R105K10TRPF    | Higher Profile               |
| NMC-T0603X5R105M10TRPR60F    | X5R        | 0603      | 1000000   | 20%  | 10      | NMC0603X5R105M10TRPF    | Higher Profile               |
| NMC-T0603X5R224K16TRPR60F    | X5R        | 0603      | 220000    | 10%  | 16      | NMC0603X5R224K16TRPF    | Higher Profile               |
| NMC-T0603X5R224M16TRPR60F    | X5R        | 0603      | 220000    | 20%  | 16      | NMC0603X5R224M16TRPF    | Higher Profile               |
| NMC-T0603X5R105K16TRPR60F    | X5R        | 0603      | 1000000   | 10%  | 16      | NMC0603X5R105K16TRPF    | Higher Profile               |
| NMC-T0603X5R105M16TRPR60F    | X5R        | 0603      | 1000000   | 20%  | 16      | NMC0603X5R105M16TRPF    | Higher Profile               |
| NMC-T0603X5R105K25TRPR95F    | X5R        | 0603      | 1000000   | 10%  | 25      | NMC0603X5R105K25TRPF    | Higher Profile               |
| NMC-T0603X5R105M25TRPR95F    | X5R        | 0603      | 1000000   | 20%  | 25      | NMC0603X5R105M25TRPF    | Higher Profile               |
| NMC-T0805X5R225K6.3TRPR95F   | X5R        | 0805      | 2200000   | 10%  | 6.3     | NMC0805X5R225K6.3TRPF   | Higher Profile               |
| NMC-T0805X5R225M6.3TRPR95F   | X5R        | 0805      | 2200000   | 20%  | 6.3     | NMC0805X5R225M6.3TRPF   | Higher Profile               |
| NMC-T0805X5R475K6.3TRPR95F   | X5R        | 0805      | 4700000   | 10%  | 6.3     | NMC0805X5R475K6.3TRPF   | Higher Profile               |
| NMC-T0805X5R475M6.3TRPR95F   | X5R        | 0805      | 4700000   | 20%  | 6.3     | NMC0805X5R475M6.3TRPF   | Higher Profile               |
| NMC-T0805X5R105K10TRPR95F    | X5R        | 0805      | 1000000   | 10%  | 10      | NMC0805X5R105K10TRPF    | Higher Profile               |
| NMC-T0805X5R105M10TRPR95F    | X5R        | 0805      | 1000000   | 20%  | 10      | NMC0805X5R105M10TRPF    | Higher Profile               |
| NMC-T0805X5R155K10TRPR95F    | X5R        | 0805      | 1500000   | 10%  | 10      | NMC0805X5R225K10TRPF    | Higher Profile & Capacitance |
| NMC-T0805X5R155M10TRPR95F    | X5R        | 0805      | 1500000   | 20%  | 10      | NMC0805X5R225M10TRPF    | Higher Profile & Capacitance |
| NMC-T0805X5R225K10TRPR95F    | X5R        | 0805      | 2200000   | 10%  | 10      | NMC0805X5R225K10TRPF    | Higher Profile               |
| NMC-T0805X5R225M10TRPR95F    | X5R        | 0805      | 2200000   | 20%  | 10      | NMC0805X5R225M10TRPF    | Higher Profile               |
| NMC-T0805X5R475K10TRPR95F    | X5R        | 0805      | 4700000   | 10%  | 10      | NMC0805X5R475K10TRPF    | Higher Profile               |
| NMC-T0805X5R475M10TRPR95F    | X5R        | 0805      | 4700000   | 20%  | 10      | NMC0805X5R475M10TRPF    | Higher Profile               |
| NMC-T0805X5R105K16TRPR95F    | X5R        | 0805      | 1000000   | 10%  | 16      | NMC0805X5R105K16TRPF    | Higher Profile               |
| NMC-T0805X5R105M16TRPR95F    | X5R        | 0805      | 1000000   | 20%  | 16      | NMC0805X5R105M16TRPF    | Higher Profile               |
| NMC-T0805X5R155K16TRPR95F    | X5R        | 0805      | 1500000   | 10%  | 16      | NMC0805X5R225K16TRPF    | Higher Profile & Capacitance |
| NMC-T0805X5R155M16TRPR95F    | X5R        | 0805      | 1500000   | 20%  | 16      | NMC0805X5R225M16TRPF    | Higher Profile & Capacitance |
| NMC-T0805X5R225K16TRPR95F    | X5R        | 0805      | 2200000   | 10%  | 16      | NMC0805X5R225K16TRPF    | Higher Profile               |
| NMC-T0805X5R225M16TRPR95F    | X5R        | 0805      | 2200000   | 20%  | 16      | NMC0805X5R225M16TRPF    | Higher Profile               |
| NMC-T0805X5R105K25TRPR95F    | X5R        | 0805      | 1000000   | 10%  | 25      | NMC0805X5R105K25TRPF    | Higher Profile               |
| NMC-T0805X5R105M25TRPR95F    | X5R        | 0805      | 1000000   | 20%  | 25      | NMC0805X5R105M25TRPF    | Higher Profile               |
| NMC-T1206X5R106K6.3TRPLPR95F | X5R        | 1206      | 10000000  | 10%  | 6.3     | NMC1206X5R106K6.3TRPLPF | Higher Profile               |
| NMC-T1206X5R106M6.3TRPLPR95F | X5R        | 1206      | 10000000  | 20%  | 6.3     | NMC1206X5R106M6.3TRPLPF | Higher Profile               |

| EOL Part Number              | Dielectric | Case Size | Cap. (uF) | Tol. | Voltage | Possible Alternative    | Comments                     |
|------------------------------|------------|-----------|-----------|------|---------|-------------------------|------------------------------|
| NMC-T1206X5R106K6.3TRPLP1R3F | X5R        | 1206      | 10000000  | 10%  | 6.3     | NMC1206X5R106K6.3TRPLPF | Higher Profile               |
| NMC-T1206X5R106M6.3TRPLP1R3F | X5R        | 1206      | 10000000  | 20%  | 6.3     | NMC1206X5R106M6.3TRPLPF | Higher Profile               |
| NMC-T1206X5R224K10TRPR95F    | X5R        | 1206      | 220000    | 10%  | 10      | NMC1206X5R224K10TRPLPF  | Higher Profile               |
| NMC-T1206X5R224M10TRPR95F    | X5R        | 1206      | 220000    | 20%  | 10      | NMC1206X5R224M10TRPLPF  | Higher Profile               |
| NMC-T1206X5R105K10TRPR95F    | X5R        | 1206      | 1000000   | 10%  | 10      | NMC1206X5R105K10TRPLPF  | Higher Profile               |
| NMC-T1206X5R105M10TRPR95F    | X5R        | 1206      | 1000000   | 20%  | 10      | NMC1206X5R105K10TRPLPF  | Higher Profile               |
| NMC-T1206X5R155K10TRPR95F    | X5R        | 1206      | 1500000   | 10%  | 10      | NMC1206X5R225K10TRPLPF  | Higher Profile & Capacitance |
| NMC-T1206X5R155M10TRPR95F    | X5R        | 1206      | 1500000   | 20%  | 10      | NMC1206X5R225M10TRPLPF  | Higher Profile & Capacitance |
| NMC-T1206X5R225K10TRPR95F    | X5R        | 1206      | 2200000   | 10%  | 10      | NMC1206X5R225K10TRPLPF  | Higher Profile               |
| NMC-T1206X5R225M10TRPR95F    | X5R        | 1206      | 2200000   | 20%  | 10      | NMC1206X5R225M10TRPLPF  | Higher Profile               |
| NMC-T1206X5R335K10TRPR95F    | X5R        | 1206      | 3300000   | 10%  | 10      | NMC1206X5R335K10TRPLPF  | Higher Profile               |
| NMC-T1206X5R335M10TRPR95F    | X5R        | 1206      | 3300000   | 20%  | 10      | NMC1206X5R335M10TRPLPF  | Higher Profile               |
| NMC-T1206X5R475K10TRPR95F    | X5R        | 1206      | 4700000   | 10%  | 10      | NMC1206X5R475K10TRPLPF  | Higher Profile               |
| NMC-T1206X5R475M10TRPR95F    | X5R        | 1206      | 4700000   | 20%  | 10      | NMC1206X5R475M10TRPLPF  | Higher Profile               |
| NMC-T1206X5R106K10TRPLP1R3F  | X5R        | 1206      | 10000000  | 10%  | 10      | NMC1206X5R106K10TRPLPF  | Higher Profile               |
| NMC-T1206X5R106M10TRPLP1R3F  | X5R        | 1206      | 10000000  | 20%  | 10      | NMC1206X5R106M10TRPLPF  | Higher Profile               |
| NMC-T1206X5R224K16TRPR95F    | X5R        | 1206      | 220000    | 10%  | 16      | NMC1206X5R224K16TRPLPF  | Higher Profile               |
| NMC-T1206X5R224M16TRPR95F    | X5R        | 1206      | 220000    | 20%  | 16      | NMC1206X5R224M16TRPLPF  | Higher Profile               |
| NMC-T1206X5R105K16TRPR95F    | X5R        | 1206      | 1000000   | 10%  | 16      | NMC1206X5R105K16TRPLPF  | Higher Profile               |
| NMC-T1206X5R105M16TRPR95F    | X5R        | 1206      | 1000000   | 20%  | 16      | NMC1206X5R105M16TRPLPF  | Higher Profile               |
| NMC-T1206X5R155K16TRPR95F    | X5R        | 1206      | 1500000   | 10%  | 16      | NMC1206X5R225K16TRPLPF  | Higher Profile & Capacitance |
| NMC-T1206X5R155M16TRPR95F    | X5R        | 1206      | 1500000   | 20%  | 16      | NMC1206X5R225M16TRPLPF  | Higher Profile & Capacitance |
| NMC-T1206X5R225K16TRPR95F    | X5R        | 1206      | 2200000   | 10%  | 16      | NMC1206X5R225K16TRPLPF  | Higher Profile               |
| NMC-T1206X5R225M16TRPR95F    | X5R        | 1206      | 2200000   | 20%  | 16      | NMC1206X5R225M16TRPLPF  | Higher Profile               |
| NMC-T1206X5R335K16TRPR95F    | X5R        | 1206      | 3300000   | 10%  | 16      | NMC1206X5R335K16TRPLPF  | Higher Profile               |
| NMC-T1206X5R335M16TRPR95F    | X5R        | 1206      | 3300000   | 20%  | 16      | NMC1206X5R335M16TRPLPF  | Higher Profile               |
| NMC-T1206X5R475K16TRPR95F    | X5R        | 1206      | 4700000   | 10%  | 16      | NMC1206X5R475K16TRPLPF  | Higher Profile               |
| NMC-T1206X5R475M16TRPR95F    | X5R        | 1206      | 4700000   | 20%  | 16      | NMC1206X5R475M16TRPLPF  | Higher Profile               |
| NMC-T1206X5R224K25TRPR95F    | X5R        | 1206      | 220000    | 10%  | 25      | NMC1206X5R224K25TRPLPF  | Higher Profile               |
| NMC-T1206X5R224M25TRPR95F    | X5R        | 1206      | 220000    | 20%  | 25      | NMC1206X5R224M25TRPLPF  | Higher Profile               |
| NMC-T1206X5R105K25TRPR95F    | X5R        | 1206      | 1000000   | 10%  | 25      | NMC1206X5R105K25TRPLPF  | Higher Profile               |
| NMC-T1206X5R105M25TRPR95F    | X5R        | 1206      | 1000000   | 20%  | 25      | NMC1206X5R105M25TRPLPF  | Higher Profile               |
| NMC-T1206X5R155K25TRPR95F    | X5R        | 1206      | 1500000   | 10%  | 25      | NMC1206X5R225K25TRPLPF  | Higher Profile               |
| NMC-T1206X5R155M25TRPR95F    | X5R        | 1206      | 1500000   | 20%  | 25      | NMC1206X5R225M25TRPLPF  | Higher Profile               |
| NMC-T1206X5R225K25TRPR95F    | X5R        | 1206      | 2200000   | 10%  | 25      | NMC1206X5R225K25TRPLPF  | Higher Profile               |
| NMC-T1206X5R225M25TRPR95F    | X5R        | 1206      | 2200000   | 20%  | 25      | NMC1206X5R225M25TRPLPF  | Higher Profile               |
| NMC-T1206X5R335K25TRPR95F    | X5R        | 1206      | 3300000   | 10%  | 25      | NMC1206X5R335K25TRPLPF  | Higher Profile               |
| NMC-T1206X5R335M25TRPR95F    | X5R        | 1206      | 3300000   | 20%  | 25      | NMC1206X5R335M25TRPLPF  | Higher Profile               |
| NMC-T1206X5R475K25TRPR95F    | X5R        | 1206      | 4700000   | 10%  | 25      | NMC1206X5R475K25TRPLPF  | Higher Profile               |
| NMC-T1206X5R475M25TRPR95F    | X5R        | 1206      | 4700000   | 20%  | 25      | NMC1206X5R475M25TRPLPF  | Higher Profile               |
| NMC-T1206X5R105K50TRP1R0F    | X5R        | 1206      | 1000000   | 10%  | 50      | NMC1206X5R105K50TRPLPF  | Higher Profile               |
| NMC-T1206X7R105K25TRPR95F    | X7R        | 1206      | 1000000   | 10%  | 25      | NMC1206X7R105K25TRPLPF  | Higher Profile               |
| NMC-T1206X7R105M25TRPR95F    | X7R        | 1206      | 1000000   | 20%  | 25      | NMC1206X7R105M25TRPLPF  | Higher Profile               |
| NMC-T1210X5R335K10TRPLPR95F  | X5R        | 1210      | 3300000   | 10%  | 10      | NMC1210X5R335K10TRPLPF  | Higher Profile               |
| NMC-T1210X5R335M10TRPLPR95F  | X5R        | 1210      | 3300000   | 20%  | 10      | NMC1210X5R335M10TRPLPF  | Higher Profile               |
| NMC-T1210X5R475K10TRPLPR95F  | X5R        | 1210      | 4700000   | 10%  | 10      | NMC1210X5R475K10TRPLPF  | Higher Profile               |
| NMC-T1210X5R475M10TRPLPR95F  | X5R        | 1210      | 4700000   | 20%  | 10      | NMC1210X5R475M10TRPLPF  | Higher Profile               |

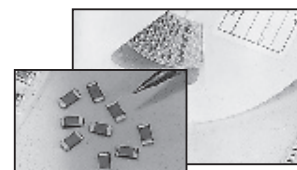
### FEATURES

- X7R AND X5R DIELECTRICS
- HIGH CAPACITANCE & LOW PROFILE
- RoHS COMPLIANT
- SAC SOLDER COMPATIBLE

### RoHS Compliant

Includes all homogeneous materials

\*See Part Number System for Details

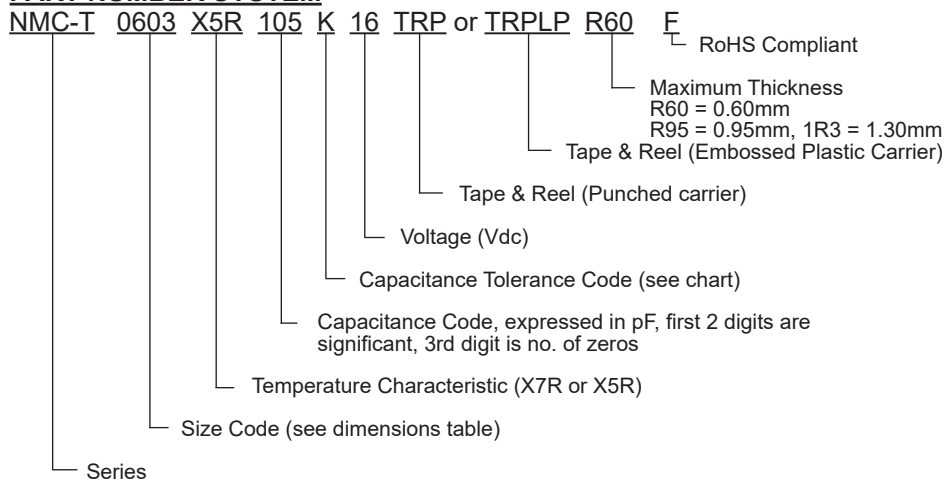


### SPECIFICATIONS

| Temperature Coefficient         | X7R                                                                                      | X5R                            |
|---------------------------------|------------------------------------------------------------------------------------------|--------------------------------|
| Capacitance Range               | 1.0 $\mu$ F                                                                              | 0.22 $\mu$ F ~ 10 $\mu$ F      |
| Capacitance Tolerance           | 10% (K) & 20% (M)                                                                        | 10% (K) & 20% (M)              |
| Operating Temperature Range     | -55°C ~ +125°C                                                                           | -55°C ~ +85°C                  |
| Temperature Characteristics     | $\pm 15\%$ $\Delta$ Cap.                                                                 | $\pm 15\%$ $\Delta$ Cap.       |
| Rated Voltages                  | 25VDC                                                                                    | 6.3, 10, 16 & 25VDC            |
| Dissipation Factor              | 10%                                                                                      | 6.3V: 15%, 10V, 16V & 25V: 10% |
| Insulation Resistance           | 500Megohm/ $\mu$ F minimum @ +25°C                                                       |                                |
| Dielectric Withstanding Voltage | 250% of Rated Voltage for 5 $\pm$ 1 sec., 50mA max.                                      |                                |
| Test Conditions (EIA-198-2E)    | 1KHz, 1.0V $\pm$ 0.2Vrms (ALC on), for C > 10 $\mu$ F 120Hz, 0.5 $\pm$ 0.2 VRMS (ALC on) |                                |

Note: Reflow soldering allowed for all case sizes. Contact NIC for wave soldering restrictions.

### PART NUMBER SYSTEM



### X7R & X5R CASE SIZES AND VALUES

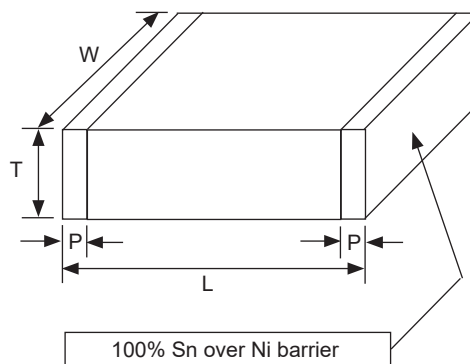
| Dielectric           | X7R  |      | X5R  |      |      |      |      |      |      |      |      |      |
|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Case Size            | 1206 | 0603 |      | 0805 |      |      |      | 1206 |      |      |      | 1210 |
| Voltage Rating (VDC) | 25V  | 10V  | 16V  | 6.3V | 10V  | 16V  | 25V  | 6.3V | 10V  | 16V  | 25V  | 10V  |
| 0.22 $\mu$ F         | -    | 0.60 | 0.60 | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 1.0 $\mu$ F          | 0.95 | 0.60 | 0.60 | -    | 0.95 | 0.95 | 0.95 | -    | 0.95 | 0.95 | 0.95 | -    |
| 1.5 $\mu$ F          | -    | -    | -    | -    | 0.95 | 0.95 | -    | -    | 0.95 | 0.95 | 0.95 | -    |
| 2.2 $\mu$ F          | -    | -    | -    | 0.95 | 0.95 | 0.95 | -    | -    | 0.95 | 0.95 | 0.95 | -    |
| 3.3 $\mu$ F          | -    | -    | -    | -    | -    | -    | -    | -    | 0.95 | 0.95 | 0.95 | 0.95 |
| 4.7 $\mu$ F          | -    | -    | -    | 0.95 | 0.95 | 0.95 | -    | -    | 0.95 | 0.95 | 0.95 | 0.95 |
| 6.8 $\mu$ F          | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 10 $\mu$ F           | -    | -    | -    | -    | 1.30 | -    | -    | 1.30 | 1.30 | -    | -    | -    |

Denotes maximum component thickness ("T" dim.) in mm

(CONSULT FACTORY  
FOR CAPACITANCE  
VALUES NOT LISTED)

### DIMENSIONS (mm)

| Case Size       | 0603                            | 0805            | 1206            | 1210            |
|-----------------|---------------------------------|-----------------|-----------------|-----------------|
| Length (L)      | 1.60 +0.15/-0.10                | 2.00 $\pm$ 0.20 | 3.20 $\pm$ 0.20 | 3.20 $\pm$ 0.30 |
| Width (W)       | 0.8 +0.15/-0.10                 | 1.25 $\pm$ 0.20 | 1.60 $\pm$ 0.20 | 2.50 $\pm$ 0.20 |
| Thickness (T)   | See case size and values tables |                 |                 |                 |
| Termination (P) | 0.45 $\pm$ 0.15                 | 0.50 $\pm$ 0.20 | 0.60 $\pm$ 0.20 | 0.75 $\pm$ 0.25 |



### PART NUMBERS AND SPECIFICATIONS

| Part Number                  | Case Size | Cap. (μF) | Cap. Tolerance    | Dielectric | Voltage (Vdc) | Withstanding Voltage | Min. Insulation Resistance (MΩ) |
|------------------------------|-----------|-----------|-------------------|------------|---------------|----------------------|---------------------------------|
| NMC-T0603X5R224_10TRPR60F    | 0603      | 0.22      | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 2272.7                          |
| NMC-T0603X5R224_16TRPR60F    |           | 0.22      | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 2272.7                          |
| NMC-T0603X5R105_10TRPR60F    |           | 1.0       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 500.0                           |
| NMC-T0603X5R105_16TRPR60F    |           | 1.0       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 500.0                           |
| NMC-T0805X5R105_10TRPR95F    | 0805      | 1.0       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 500.0                           |
| NMC-T0805X5R105_16TRPR95F    |           | 1.0       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 500.0                           |
| NMC-T0805X5R105_25TRPR95F    |           | 1.0       | ±10%(K) & ±20%(M) | X5R        | 25            | 62.5                 | 500.0                           |
| NMC-T0805X5R155_10TRPR95F    |           | 1.5       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 333.3                           |
| NMC-T0805X5R155_16TRPR95F    |           | 1.5       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 333.3                           |
| NMC-T0805X5R225_6.3TRPR95F   |           | 2.2       | ±10%(K) & ±20%(M) | X5R        | 6.3           | 15.75                | 227.3                           |
| NMC-T0805X5R225_16TRPR95F    |           | 2.2       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 227.3                           |
| NMC-T0805X5R225_16TRPR95F    |           | 2.2       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 227.3                           |
| NMC-T0805X5R475_6.3TRPR95F   |           | 4.7       | ±10%(K) & ±20%(M) | X5R        | 6.3           | 15.75                | 106.4                           |
| NMC-T0805X5R475_10TRPR95F    |           | 4.7       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 106.4                           |
| NMC-T1206X5R105_10TRPR95F    | 1206      | 1.0       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 500.0                           |
| NMC-T1206X5R105_16TRPR95F    |           | 1.0       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 500.0                           |
| NMC-T1206X5R105_25TRPR95F    |           | 1.0       | ±10%(K) & ±20%(M) | X5R        | 25            | 62.5                 | 500.0                           |
| NMC-T1206X7R105_25TRPR95F    |           | 1.0       | ±10%(K) & ±20%(M) | X7R        | 25            | 62.5                 | 500.0                           |
| NMC-T1206X5R155_10TRPR95F    |           | 1.5       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 333.3                           |
| NMC-T1206X5R155_16TRPR95F    |           | 1.5       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 333.3                           |
| NMC-T1206X5R155_25TRPR95F    |           | 1.5       | ±10%(K) & ±20%(M) | X5R        | 25            | 62.5                 | 333.3                           |
| NMC-T1206X5R225_10TRPR95F    |           | 2.2       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 227.3                           |
| NMC-T1206X5R225_16TRPR95F    |           | 2.2       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 227.3                           |
| NMC-T1206X5R225_25TRPR95F    |           | 2.2       | ±10%(K) & ±20%(M) | X5R        | 25            | 62.5                 | 227.3                           |
| NMC-T1206X5R335_10TRPR95F    |           | 3.3       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 151.5                           |
| NMC-T1206X5R335_16TRPR95F    |           | 3.3       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 151.5                           |
| NMC-T1206X5R335_25TRPR95F    |           | 3.3       | ±10%(K) & ±20%(M) | X5R        | 25            | 62.5                 | 151.5                           |
| NMC-T1206X5R475_10TRPR95F    |           | 4.7       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 106.4                           |
| NMC-T1206X5R475_16TRPR95F    |           | 4.7       | ±10%(K) & ±20%(M) | X5R        | 16            | 40                   | 106.4                           |
| NMC-T1206X5R475_25TRPR95F    |           | 4.7       | ±10%(K) & ±20%(M) | X5R        | 25            | 62.5                 | 106.4                           |
| NMC-T1206X5R106_6.3TRPLP1R3F |           | 10        | ±10%(K) & ±20%(M) | X5R        | 6.3           | 15.75                | 50.0                            |
| NMC-T1206X5R106_10TRPLP1R3F  |           | 10        | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 50.0                            |
| NMC-T1210X5R335_10TRPLPR95F  | 1210      | 3.3       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 151.5                           |
| NMC-T1210X5R475_10TRPLPR95F  |           | 4.7       | ±10%(K) & ±20%(M) | X5R        | 10            | 25                   | 106.4                           |

"\_" insert desired capacitance tolerance code

### REEL QUANTITIES

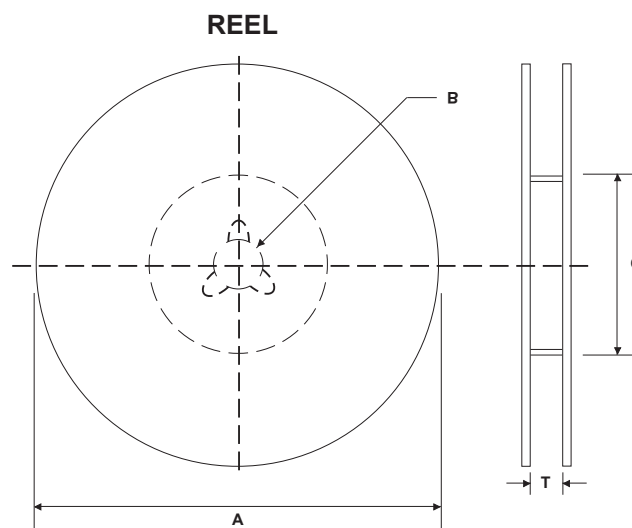
| Maximum Thickness | Case Size     | 0603 |     |     | 0805 |     |     | 1206 |     |     | 1210 |     |     |
|-------------------|---------------|------|-----|-----|------|-----|-----|------|-----|-----|------|-----|-----|
|                   | Reel Diameter | 7"   | 10" | 13" | 7"   | 10" | 13" | 7"   | 10" | 13" | 7"   | 10" | 13" |
| 0.33              |               | -    | -   | -   | -    | -   | -   | -    | -   | -   | -    | -   | -   |
| 0.60              |               | 4K   | 10K | 15K | -    | -   | -   | -    | -   | -   | -    | -   | -   |
| 0.95              |               | -    | -   | -   | 4K   | 10K | 15K | 4K   | 10K | 15K | 3K   | 5K  | 10K |
| 1.30              |               | -    | -   | -   | -    | -   | -   | 3K   | 5K  | 10K | -    | -   | -   |

### REEL DIMENSIONS (mm)

| Reel Diameter (A) | B        | C         | T max.      |
|-------------------|----------|-----------|-------------|
| 7" (178 ± 1.0)    | 13 ± 0.5 | 60 ± 1.0  | 8.4 +1.5/-0 |
| 10" (250 ± 1.0)   |          | 100 ± 1.0 |             |
| 13" (330 ± 1.0)   |          | 100 ± 1.0 |             |

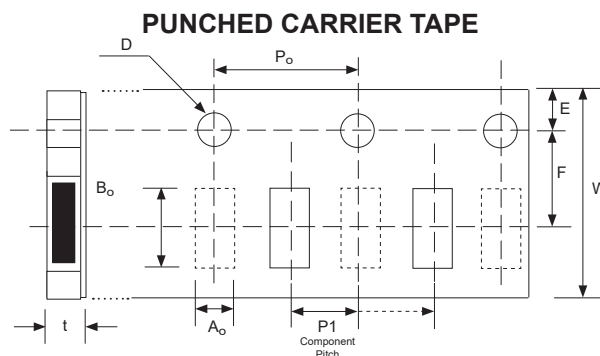
### CARRIER TAPE MATERIAL

| Maximum Thickness | 0603  | 0805  | 1206    | 1210    |
|-------------------|-------|-------|---------|---------|
| 0.60              | Paper | -     | -       | -       |
| 0.95              | -     | Paper | Paper   | Plastic |
| 1.30              | -     | -     | Plastic | -       |



### PUNCHED CARRIER TAPE DIMENSIONS (mm)

| Case Size | A <sub>o</sub> | B <sub>o</sub> | W         | F          | E          | P1         | P0        | D0                       | T           | Mounting Hole      |
|-----------|----------------|----------------|-----------|------------|------------|------------|-----------|--------------------------|-------------|--------------------|
| 0603      | 1.1 ± 0.2      | 1.9 ± 0.2      | 8.0 ± 0.3 | 3.5 ± 0.05 | 1.75 ± 0.1 | 2.0 ± 0.10 | 4.0 ± 0.1 | 1.5 <sup>+0.1/-0.0</sup> | 0.60 ± 0.05 | Angular Punch Hole |
| 0805      | 1.5 ± 0.1      | 2.4 ± 0.2      |           |            |            | 4.0 ± 0.10 |           | 1.5 ± 0.05               | 0.95 ± 0.05 |                    |
| 1206      | 2.0 ± 0.2      | 3.6 ± 0.2      |           |            |            |            |           |                          |             |                    |



### EMBOSSED PLASTIC CARRIER TAPE DIMENSIONS (mm)

| Case Size | Tape Size | W         | F          | E           | P <sub>0</sub> | P <sub>2</sub> | D          | K max. | P         |
|-----------|-----------|-----------|------------|-------------|----------------|----------------|------------|--------|-----------|
| 1206      | 8mm       | 8.0 ± 0.2 | 3.5 ± 0.05 | 1.75 ± 0.10 | 4.0 ± 0.1      | 2.0 ± 0.05     | 1.5 ± 0.05 | 2.5    | 4.0 ± 0.1 |
| 1210      |           |           |            |             |                |                |            |        |           |

#### Notes:

- Specifications are in compliance with EIA RS481-1-A  
"Taping of surface Mount Components for Automatic Placement"
- Dimensions A<sub>0</sub> (max.) equals component width dimension plus 0.5mm
- Dimension B<sub>0</sub> (max.) equals component length dimension plus 0.5mm

