

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

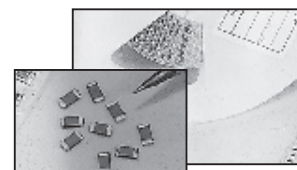
FEATURES

- 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

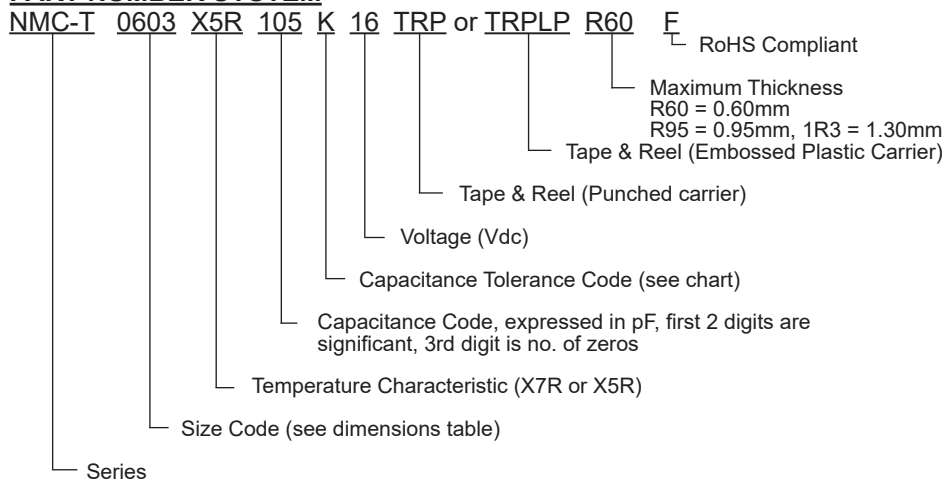


SPECIFICATIONS

Temperature Coefficient	X7R	X5R
Capacitance Range	1.0 μ F	0.22 μ F ~ 10 μ F
Capacitance Tolerance	10% (K) & 20% (M)	10% (K) & 20% (M)
Operating Temperature Range	-55°C ~ +125°C	-55°C ~ +85°C
Temperature Characteristics	$\pm 15\%$ Δ Cap.	$\pm 15\%$ Δ Cap.
Rated Voltages	25VDC	6.3, 10, 16 & 25VDC
Dissipation Factor	10%	6.3V: 15%, 10V, 16V & 25V: 10%
Insulation Resistance	500Megohm/ μ 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 μ 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

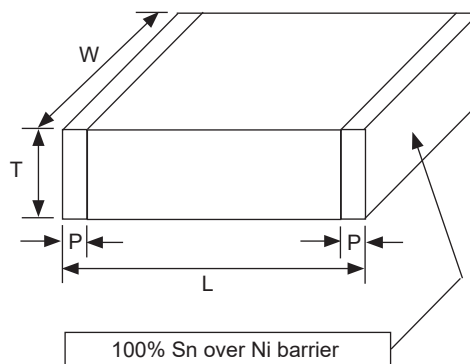
Dielectric	X7R	X5R										
Case Size	1206	0603		0805				1206				1210
Voltage Rating (VDC)	25V	10V	16V	6.3V	10V	16V	25V	6.3V	10V	16V	25V	10V
0.22μF	-	0.60	0.60	-	-	-	-	-	-	-	-	-
1.0μF	0.95	0.60	0.60	-	0.95	0.95	0.95	-	0.95	0.95	0.95	-
1.5μF	-	-	-	-	0.95	0.95	-	-	0.95	0.95	0.95	-
2.2μF	-	-	-	0.95	0.95	0.95	-	-	0.95	0.95	0.95	-
3.3μF	-	-	-	-	-	-	-	-	0.95	0.95	0.95	0.95
4.7μF	-	-	-	0.95	0.95	0.95	-	-	0.95	0.95	0.95	0.95
6.8μF	-	-	-	-	-	-	-	-	-	-	-	-
10μF	-	-	-	-	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 ± 0.20	3.20 ± 0.20	3.20 ± 0.30
Width (W)	0.8 +0.15/-0.10	1.25 ± 0.20	1.60 ± 0.20	2.50 ± 0.20
Thickness (T)	See case size and values tables			
Termination (P)	0.45 ± 0.15	0.50 ± 0.20	0.60 ± 0.20	0.75 ± 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_10TRPR95F		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

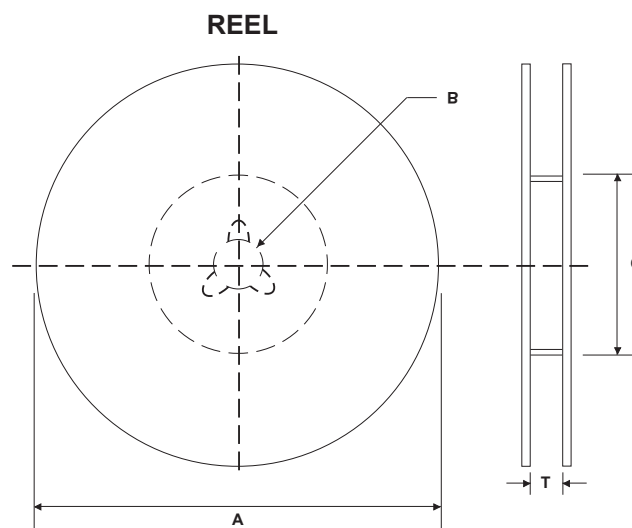
Maximum Thickness	Case Size	0603			0805			1206			1210		
	Reel Diameter	7"	10"	13"	7"	10"	13"	7"	10"	13"	7"	10"	13"
0.33		-	-	-	-	-	-	-	-	-	-	-	-
0.60		4K	10K	15K	-	-	-	-	-	-	-	-	-
0.95		-	-	-	4K	10K	15K	4K	10K	15K	3K	5K	10K
1.30		-	-	-	-	-	-	3K	5K	10K	-	-	-

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	

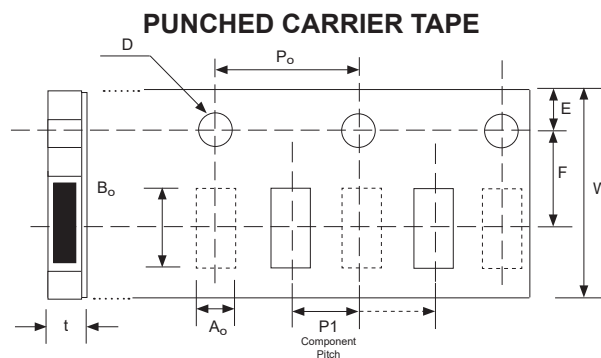
CARRIER TAPE MATERIAL

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 _o	B _o	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 ^{+0.1/-0.0}	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 ₀	P ₂	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 A₀ (max.) equals component width dimension plus 0.5mm
- Dimension B₀ (max.) equals component length dimension plus 0.5mm

