FEATURES

- STANDARD EIA 0805 & 1206 PACKAGING
- EACH COMPONENT CONTAINS 4 ISOLATED CERAMIC CAPACITORS
- AVAILABLE IN A WIDE RANGE OF VALUES AND TEMPERATURE COEFFICIENTS





SPECIFICATIONS	NPO	X7R	X5R	Y5V
OPERATING TEMPERATURE	-55°C~ +125°C	-55°C~ +125°C	-55°C~ +85°C	-30°C~ +85°C
CAPACITANCE RANGE	10pF ~ 470pF	180pF ~ 0.1μF	0.1μF	0.01μF ~ 0.1μF
VOLTAGE RANGE	16, 25, 50 &100Vdc	10, 16, 25 & 50Vdc	16Vdc	16, 25 & 50Vdc
CAPACITANCE TOLERANCE	±5% (J), ±10%(K)	±10%(K), ±20%(M)	±10%(K), ±20%(M)	+80%/-20% (Z)
TEMPERATURE CHARACTERISTICS	0±30ppm	±15%	±15%	+30% ~ -80%
DIELECTRIC WITHSTANDING VOLTAGE	2.5 x Rated Voltage for 1 minute			
INSULATION RESISTANCE (after 1 minute)	>10 G Ω	>10 G Ω	>10 G Ω	>10 G Ω
DISSIPATION FACTOR	<u><</u> 0.1%	<u><</u> 5%	<u><</u> 5%	1206 ≤ 7%

NPO 0805 STANDARD VALUES AND VOLTAGES

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA0805NPO101J16TRPF		16	100	±5%
NCA0805NPO221J16TRPF		10	220	±5%
NCA0805NPO100J25TRPF			10	±5%
NCA0805NPO150J25TRPF			15	±5%
NCA0805NPO220J25TRPF]		22	±5%
NCA0805NPO330J25TRPF]		33	±5%
NCA0805NPO470J25TRPF]		47	±5%
NCA0805NPO680J25TRPF		25	68	±5%
NCA0805NPO820J25TRPF		25	82	±5%
NCA0805NPO101J25TRPF]		100	±5%
NCA0805NPO151J25TRPF	1		150	±5%
NCA0805NPO181J25TRPF]		180	±5%
NCA0805NPO221J25TRPF]		220	±5%
NCA0805NPO271J25TRPF			270	±5%
NCA0805NPO100J50TRPF	1	50	10	±5%
NCA0805NPO150J50TRPF]		15	±5%
NCA0805NPO180J50TRPF]		18	±5%
NCA0805NPO220J50TRPF]		22	±5%
NCA0805NPO330J50TRPF	0805		33	±5%
NCA0805NPO390J50TRPF	0805		39	±5%
NCA0805NPO470J50TRPF			47	±5%
NCA0805NPO560J50TRPF			56	±5%
NCA0805NPO680J50TRPF			68	±5%
NCA0805NPO820J50TRPF			82	±5%
NCA0805NPO101J50TRPF			100	±5%
NCA0805NPO121J50TRPF			120	±5%
NCA0805NPO151J50TRPF			150	±5%
NCA0805NPO181J50TRPF			180	±5%
NCA0805NPO221J50TRPF			220	±5%
NCA0805NPO271J50TRPF			270	±5%
NCA0805NPO100J100TRPF			10	±5%
NCA0805NPO150J100TRPF			15	±5%
NCA0805NPO220J100TRPF]		22	±5%
NCA0805NPO330J100TRPF]	100	33	±5%
NCA0805NPO470J100TRPF		100	47	±5%
NCA0805NPO680J100TRPF			68	±5%
NCA0805NPO101J100TRPF			100	±5%
NCA0805NPO151J100TRPF			150	±5%

RoHS
Compliant
Includes all homogeneous materials
*See Part Number System for Details

New Values

NPO 0805 STANDARD VALUES AND VOLTAGES (CONTINUED ON NEXT PAGE)



NPO 0805 STANDARD VALUES AND VOLTAGES (CONTINUED)

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA0805NPO181J100TRPF			180	±5%
NCA0805NPO221J100TRPF	0805	100	220	±5%
NCA0805NPO271J100TRPF			270	±5%

New Values

NPO 1206 STANDARD VALUES AND VOLTAGES

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA1206NPO100J16TRPF			10	±5%
NCA1206NPO220J16TRPF			22	±5%
NCA1206NPO330J16TRPF			33	±5%
NCA1206NPO470J16TRPF			47	±5%
NCA1206NPO680J16TRPF	7	4.0	68	±5%
NCA1206NPO820J16TRPF	7	16	82	±5%
NCA1206NPO101J16TRPF	7		100	±5%
NCA1206NPO221J16TRPF	7		220	±5%
NCA1206NPO331J16TRPF	7		330	±5%
NCA1206NPO471J16TRPF	7		470	±5%
NCA1206NPO100J25TRPF	7		10	±5%
NCA1206NPO150J25TRPF			15	±5%
NCA1206NPO220J25TRPF			22	±5%
NCA1206NPO330J25TRPF			33	±5%
NCA1206NPO470J25TRPF	1		47	±5%
NCA1206NPO680J25TRPF	-		68	±5%
NCA1206NPO820J25TRPF	-		82	±5%
NCA1206NPO101J25TRPF	-	25	100	±5%
NCA1206NPO151J25TRPF			150	±5%
NCA1206NPO181J25TRPF			180	±5%
NCA1206NPO221J25TRPF			220	±5%
NCA1206NPO271J25TRPF			270	±5%
NCA1206NPO331J25TRPF			330	±5%
NCA1206NPO471J25TRPF	-		470	±5%
NCA1206NPO100J50TRPF	-		10	±5%
NCA1206NPO150J50TRPF			15	±5%
NCA1206NPO180J50TRPF	-		18	±5%
	1206		22	±5%
NCA1206NPO220J50TRPF NCA1206NPO330J50TRPF	-			±5%
NCA1206NPO390J50TRPF			33	±5%
	-		47	_
NCA1206NPO470J50TRPF				±5%
NCA1206NPO560J50TRPF			56	±5%
NCA1206NPO680J50TRPF	_		68	±5%
NCA1206NPO820J50TRPF	_	50	82	±5%
NCA1206NPO101J50TRPF			100	±5%
NCA1206NPO121J50TRPF	_		120	±5%
NCA1206NPO151J50TRPF	_		150	±5%
NCA1206NPO181J50TRPF	_		180	±5%
NCA1206NPO221J50TRPF			220	±5%
NCA1206NPO271J50TRPF	_		270	±5%
NCA1206NPO331J50TRPF			330	±5%
NCA1206NPO391J50TRPF			390	±5%
NCA1206NPO471J50TRPF	4		470	±5%
NCA1206NPO100J100TRPF			10	±5%
NCA1206NPO150J100TRPF			15	±5%
NCA1206NPO180J100TRPF			18	±5%
NCA1206NPO220J100TRPF	4		22	±5%
NCA1206NPO330J100TRPF	4		33	±5%
NCA1206NPO390J100TRPF		100	39	±5%
NCA1206NPO470J100TRPF	_		47	±5%
NCA1206NPO560J100TRPF			56	±5%
NCA1206NPO680J100TRPF	_		68	±5%
NCA1206NPO820J100TRPF	_		82	±5%
NCA1206NPO101J100TRPF			100	±5%

New Values

NPO 1206 STANDARD VALUES AND VOLTAGES (CONTINUED ON NEXT PAGE)

NPO 1206 STANDARD VALUES AND VOLTAGES (CONTINUED)

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA1206NPO121J100TRPF			120	±5%
NCA1206NPO151J100TRPF			150	±5%
NCA1206NPO181J100TRPF			180	±5%
NCA1206NPO221J100TRPF	1206	100	220	±5%
NCA1206NPO271J100TRPF		100	270	±5%
NCA1206NPO331J100TRPF			330	±5%
NCA1206NPO391J100TRPF			390	±5%
NCA1206NPO471J100TRPF			470	±5%

X7R 0805 STANDARD VALUES AND VOLTAGES

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NCA0805X7R102K10TRPF	X7R 0805 STANDARD VALUES AND VOLTAGES					
NCA0805X7R102K10TRPF NCA0805X7R152K10TRPF NCA0805X7R332K10TRPF NCA0805X7R332K10TRPF NCA0805X7R332K10TRPF NCA0805X7R682K10TRPF NCA0805X7R682K10TRPF NCA0805X7R103K10TRPF NCA0805X7R103K10TRPF NCA0805X7R153K10TRPF NCA0805X7R333K10TRPF NCA0805X7R333K10TRPF NCA0805X7R333K10TRPF NCA0805X7R833K10TRPF NCA0805X7R833K10TRPF NCA0805X7R833K10TRPF NCA0805X7R833K10TRPF NCA0805X7R833K10TRPF NCA0805X7R833K10TRPF NCA0805X7R833K10TRPF NCA0805X7R823K10TRPF NCA0805X7R102K16TRPF NCA0805X7R102K16TRPF NCA0805X7R122K16TRPF NCA0805X7R132K16TRPF NCA0805X7R332K16TRPF NCA0805X7R332K16TRPF NCA0805X7R332K16TRPF NCA0805X7R332K16TRPF NCA0805X7R832K16TRPF NCA0805X7R822K16TRPF NCA0805X7R832K16TRPF NCA0805X7R833K16TRPF NCA0805X7R333K16TRPF NCA0805X7R273K16TRPF NCA0805X7R273K16TRPF NCA0805X7R273K16TRPF NCA0805X7R233K16TRPF NCA0805X7R233K16TRPF NCA0805X7R233K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRP	Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.	
NCA0805X7R222K10TRPF	NCA0805X7R102K10TRPF			1,000	±10%	
NCA0805X7R332K10TRPF	NCA0805X7R152K10TRPF	1		1,500	±10%	
NCA0805X7R472K10TRPF	NCA0805X7R222K10TRPF	1		2,200	±10%	
NCA0805X7R682K10TRPF	NCA0805X7R332K10TRPF	1		3,300	±10%	
NCA0805X7R103K10TRPF	NCA0805X7R472K10TRPF	1		4,700	±10%	
NCA0805X7R153K10TRPF	NCA0805X7R682K10TRPF	1		6,800	±10%	
NCA0805X7R133K10TRPF	NCA0805X7R103K10TRPF]	10	10,000	±10%	
NCA0805X7R333K10TRPF NCA0805X7R473K10TRPF NCA0805X7R683K10TRPF NCA0805X7R683K10TRPF NCA0805X7R823K10TRPF NCA0805X7R823K10TRPF NCA0805X7R104K10TRPF NCA0805X7R102K16TRPF NCA0805X7R102K16TRPF NCA0805X7R122K16TRPF NCA0805X7R122K16TRPF NCA0805X7R122K16TRPF NCA0805X7R122K16TRPF NCA0805X7R222K16TRPF NCA0805X7R332K16TRPF NCA0805X7R332K16TRPF NCA0805X7R332K16TRPF NCA0805X7R322K16TRPF NCA0805X7R822K16TRPF NCA0805X7R822K16TRPF NCA0805X7R822K16TRPF NCA0805X7R822K16TRPF NCA0805X7R822K16TRPF NCA0805X7R822K16TRPF NCA0805X7R822K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R333K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R83K16TRPF NCA0805X7R833K16TRPF NCA0805X7R83K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF NCA0805X7R833K16TRPF	NCA0805X7R153K10TRPF		10	15,000	±10%	
NCA0805X7R473K10TRPF NCA0805X7R683K10TRPF NCA0805X7R683K10TRPF NCA0805X7R104K10TRPF NCA0805X7R104K10TRPF NCA0805X7R102K16TRPF NCA0805X7R102K16TRPF NCA0805X7R122K16TRPF NCA0805X7R12EX16TRPF NCA0805X7R122K16TRPF NCA0805X7R222K16TRPF NCA0805X7R222K16TRPF NCA0805X7R322K16TRPF NCA0805X7R322K16TRPF NCA0805X7R322K16TRPF NCA0805X7R322K16TRPF NCA0805X7R322K16TRPF NCA0805X7R682K16TRPF NCA0805X7R682K16TRPF NCA0805X7R682K16TRPF NCA0805X7R682K16TRPF NCA0805X7R123K16TRPF NCA0805X7R153K16TRPF NCA0805X7R153K16TRPF NCA0805X7R153K16TRPF NCA0805X7R153K16TRPF NCA0805X7R323K16TRPF NCA0805X7R333K16TRPF NCA0805X7R333K16TRPF NCA0805X7R333K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF NCA0805X7R33X16TRPF	NCA0805X7R223K10TRPF			22,000	±10%	
NCA0805X7R683K10TRPF NCA0805X7R823K10TRPF NCA0805X7R104K10TRPF NCA0805X7R102K16TRPF NCA0805X7R102K16TRPF NCA0805X7R122K16TRPF NCA0805X7R122K16TRPF NCA0805X7R122K16TRPF NCA0805X7R222K16TRPF NCA0805X7R222K16TRPF NCA0805X7R32K16TRPF NCA0805X7R332K16TRPF NCA0805X7R332K16TRPF NCA0805X7R332K16TRPF NCA0805X7R392K16TRPF NCA0805X7R392K16TRPF NCA0805X7R562K16TRPF NCA0805X7R622K16TRPF NCA0805X7R622K16TRPF NCA0805X7R103K16TRPF NCA0805X7R103K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R123K16TRPF NCA0805X7R223K16TRPF NCA0805X7R323K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R33K16TRPF NCA0805X7R35K16TRPF NCA0805X7R35X16TRPF N	NCA0805X7R333K10TRPF			33,000	±10%	
NCA0805X7R823K10TRPF	NCA0805X7R473K10TRPF			47,000	±10%	
NCA0805X7R104K10TRPF	NCA0805X7R683K10TRPF			68,000	±10%	
NCA0805X7R102K16TRPF	NCA0805X7R823K10TRPF			82,000	±10%	
NCA0805X7R122K16TRPF	NCA0805X7R104K10TRPF			100,000	±10%	
NCA0805X7R152K16TRPF 1,500 ±10% NCA0805X7R182K16TRPF 1,800 ±10% NCA0805X7R222K16TRPF 2,200 ±10% NCA0805X7R272K16TRPF 3,300 ±10% NCA0805X7R332K16TRPF 3,300 ±10% NCA0805X7R392K16TRPF 4,700 ±10% NCA0805X7R562K16TRPF 5,600 ±10% NCA0805X7R822K16TRPF 6,800 ±10% NCA0805X7R103K16TRPF 12,000 ±10% NCA0805X7R123K16TRPF 15,000 ±10% NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R63K16TRPF 47,000 ±10% NCA0805X7R63K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 68,000 ±10%	NCA0805X7R102K16TRPF			1,000	±10%	
NCA0805X7R182K16TRPF 1,800 ±10% NCA0805X7R222K16TRPF 2,200 ±10% NCA0805X7R332K16TRPF 3,300 ±10% NCA0805X7R392K16TRPF 3,300 ±10% NCA0805X7R392K16TRPF 4,700 ±10% NCA0805X7R562K16TRPF 5,600 ±10% NCA0805X7R822K16TRPF 6,800 ±10% NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R153K16TRPF 15,000 ±10% NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R23K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 56,000 ±10% NCA0805X7R63K16TRPF 47,000 ±10% NCA0805X7R683K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 56,000 ±10%	NCA0805X7R122K16TRPF			1,200	±10%	
NCA0805X7R222K16TRPF 0805 2,200 ±10% NCA0805X7R272K16TRPF 2,700 ±10% NCA0805X7R332K16TRPF 3,300 ±10% NCA0805X7R392K16TRPF 3,900 ±10% NCA0805X7R472K16TRPF 4,700 ±10% NCA0805X7R682K16TRPF 5,600 ±10% NCA0805X7R822K16TRPF 6,800 ±10% NCA0805X7R13K16TRPF 10,000 ±10% NCA0805X7R13SK16TRPF 12,000 ±10% NCA0805X7R183K16TRPF 15,000 ±10% NCA0805X7R23K16TRPF 18,000 ±10% NCA0805X7R333K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 56,000 ±10% NCA0805X7R563K16TRPF 47,000 ±10% NCA0805X7R683K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 68,000 ±10%	NCA0805X7R152K16TRPF			1,500	±10%	
NCA0805X7R272K16TRPF 0805 NCA0805X7R332K16TRPF 3,300 ±10% NCA0805X7R392K16TRPF 3,900 ±10% NCA0805X7R472K16TRPF 4,700 ±10% NCA0805X7R562K16TRPF 5,600 ±10% NCA0805X7R822K16TRPF 6,800 ±10% NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R183K16TRPF 15,000 ±10% NCA0805X7R23K16TRPF 18,000 ±10% NCA0805X7R23K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 27,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R63K16TRPF 56,000 ±10% NCA0805X7R823K16TRPF 56,000 ±10%	NCA0805X7R182K16TRPF			1,800	±10%	
NCA0805X7R272K161RPF 2,700		0805		2,200	±10%	
NCA0805X7R392K16TRPF 3,900 ±10% NCA0805X7R472K16TRPF 4,700 ±10% NCA0805X7R562K16TRPF 5,600 ±10% NCA0805X7R822K16TRPF 6,800 ±10% NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R153K16TRPF 15,000 ±10% NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R63K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R272K16TRPF	0803		2,700	±10%	
NCA0805X7R472K16TRPF 4,700 ±10% NCA0805X7R562K16TRPF 5,600 ±10% NCA0805X7R682K16TRPF 6,800 ±10% NCA0805X7R103K16TRPF 8,200 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R153K16TRPF 15,000 ±10% NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 47,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R332K16TRPF]		3,300	±10%	
NCA0805X7R562K16TRPF 5,600 ±10% NCA0805X7R682K16TRPF 6,800 ±10% NCA0805X7R822K16TRPF 8,200 ±10% NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R183K16TRPF 15,000 ±10% NCA0805X7R23K16TRPF 18,000 ±10% NCA0805X7R273K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R392K16TRPF			-	±10%	
NCA0805X7R682K16TRPF 6,800 ±10% NCA0805X7R822K16TRPF 8,200 ±10% NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R183K16TRPF 15,000 ±10% NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R273K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R472K16TRPF]		4,700	±10%	
NCA0805X7R822K16TRPF 8,200 ±10% NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R153K16TRPF 15,000 ±10% NCA0805X7R23K16TRPF 18,000 ±10% NCA0805X7R273K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 27,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R562K16TRPF			5,600	±10%	
NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R153K16TRPF 15,000 ±10% NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R273K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R682K16TRPF			6,800	±10%	
NCA0805X7R103K16TRPF 10,000 ±10% NCA0805X7R123K16TRPF 12,000 ±10% NCA0805X7R153K16TRPF 15,000 ±10% NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R273K16TRPF 22,000 ±10% NCA0805X7R333K16TRPF 27,000 ±10% NCA0805X7R473K16TRPF 33,000 ±10% NCA0805X7R563K16TRPF 47,000 ±10% NCA0805X7R683K16TRPF 56,000 ±10% NCA0805X7R823K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%			16	8,200	±10%	
NCA0805X7R153K16TRPF 15,000 ±10% NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R273K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R103K16TRPF		10	10,000	±10%	
NCA0805X7R183K16TRPF 18,000 ±10% NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R273K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R123K16TRPF			12,000	±10%	
NCA0805X7R223K16TRPF 22,000 ±10% NCA0805X7R273K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R153K16TRPF			,	±10%	
NCA0805X7R273K16TRPF 27,000 ±10% NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R183K16TRPF			18,000	±10%	
NCA0805X7R333K16TRPF 33,000 ±10% NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R223K16TRPF			22,000	±10%	
NCA0805X7R473K16TRPF 47,000 ±10% NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R273K16TRPF			27,000	±10%	
NCA0805X7R563K16TRPF 56,000 ±10% NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R333K16TRPF			33,000	±10%	
NCA0805X7R683K16TRPF 68,000 ±10% NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R473K16TRPF			47,000		
NCA0805X7R823K16TRPF 82,000 ±10%	NCA0805X7R563K16TRPF			56,000	±10%	
	NCA0805X7R683K16TRPF			68,000	±10%	
NO 400 EVZD104V16TDDE				82,000		
100,000 ±10%	NCA0805X7R104K16TRPF			100,000	±10%	

New Values

Multilayer Ceramic Chip Capacitors

X7R 0805 STANDARD VALUES AND VOLTAGES (CONTINUED)

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA0805X7R102K25TRPF			1,000	±10%
NCA0805X7R122K25TRPF			1,200	±10%
NCA0805X7R152K25TRPF			1,500	±10%
NCA0805X7R182K25TRPF			1,800	±10%
NCA0805X7R222K25TRPF			2,200	±10%
NCA0805X7R272K25TRPF			2,700	±10%
NCA0805X7R332K25TRPF			3,300	±10%
NCA0805X7R392K25TRPF			3,900	±10%
NCA0805X7R472K25TRPF			4,700	±10%
NCA0805X7R562K25TRPF		25	5,600	±10%
NCA0805X7R682K25TRPF			6,800	±10%
NCA0805X7R822K25TRPF			8,200	±10%
NCA0805X7R103K25TRPF	0005		10,000	±10%
NCA0805X7R153K25TRPF	0805		15,000	±10%
NCA0805X7R223K25TRPF			22,000	±10%
NCA0805X7R333K25TRPF			33,000	±10%
NCA0805X7R473K25TRPF			47,000	±10%
NCA0805X7R683K25TRPF			68,000	±10%
NCA0805X7R104K25TRPF			100,000	±10%
NCA0805X7R102K50TRPF			1,000	±10%
NCA0805X7R152K50TRPF			1,500	±10%
NCA0805X7R222K50TRPF			2,200	±10%
NCA0805X7R332K50TRPF		50	3,300	±10%
NCA0805X7R472K50TRPF			4,700	±10%
NCA0805X7R682K50TRPF			6,800	±10%
NCA0805X7R103K50TRPF			10,000	±10%

New Values

X7R 1206 STANDARD VALUES AND VOLTAGES

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA1206X7R181K16TRPF			180	±10%
NCA1206X7R221K16TRPF			220	±10%
NCA1206X7R271K16TRPF			270	±10%
NCA1206X7R331K16TRPF			330	±10%
NCA1206X7R391K16TRPF			390	±10%
NCA1206X7R471K16TRPF			470	±10%
NCA1206X7R561K16TRPF			560	±10%
NCA1206X7R681K16TRPF			680	±10%
NCA1206X7R821K16TRPF			820	±10%
NCA1206X7R102K16TRPF			1,000	±10%
NCA1206X7R122K16TRPF			1,200	±10%
NCA1206X7R152K16TRPF			1,500	±10%
NCA1206X7R182K16TRPF			1,800	±10%
NCA1206X7R222K16TRPF			2,200	±10%
NCA1206X7R272K16TRPF			2,700	±10%
NCA1206X7R332K16TRPF	1206	16	3,300	±10%
NCA1206X7R392K16TRPF			3,900	±10%
NCA1206X7R472K16TRPF			4,700	±10%
NCA1206X7R562K16TRPF			5,600	±10%
NCA1206X7R682K16TRPF			6,800	±10%
NCA1206X7R822K16TRPF			8,200	±10%
NCA1206X7R103K16TRPF			10,000	±10%
NCA1206X7R123K16TRPF			12,000	±10%
NCA1206X7R153K16TRPF			15,000	±10%
NCA1206X7R183K16TRPF			18,000	±10%
NCA1206X7R223K16TRPF			22,000	±10%
NCA1206X7R273K16TRPF			27,000	±10%
NCA1206X7R333K16TRPF			33,000	±10%
NCA1206X7R473K16TRPF			47,000	±10%
NCA1206X7R563K16TRPF			56,000	±10%
NCA1206X7R683K16TRPF			68,000	±10%

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New Values

X7R 1206 STANDARD VALUES AND VOLTAGES (CONTINUED ON NEXT PAGE)

Multilayer Ceramic Chip Capacitors

X7R 1206 STANDARD VALUES AND VOLTAGES (CONTINUED)

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA1206X7R823K16TRPF	OddC Oizc		82,000	±10%
NCA1206X7R104K16TRPF	-	16	100,000	±10%
NCA1206X7R181K25TRPF			180	±10%
NCA1206X7R18TR25TRPF	-		220	±10%
	_			+
NCA1206X7R271K25TRPF			270	±10%
NCA1206X7R331K25TRPF			330	±10%
NCA1206X7R391K25TRPF			390	±10%
NCA1206X7R471K25TRPF			470	±10%
NCA1206X7R561K25TRPF			560	±10%
NCA1206X7R681K25TRPF			680	±10%
NCA1206X7R821K25TRPF			820	±10%
NCA1206X7R102K25TRPF			1,000	±10%
NCA1206X7R122K25TRPF			1,200	±10%
NCA1206X7R152K25TRPF			1,500	±10%
NCA1206X7R182K25TRPF			1,800	±10%
NCA1206X7R222K25TRPF		25	2,200	±10%
NCA1206X7R272K25TRPF		25	2,700	±10%
NCA1206X7R332K25TRPF			3,300	±10%
NCA1206X7R392K25TRPF			3,900	±10%
NCA1206X7R472K25TRPF			4,700	±10%
NCA1206X7R562K25TRPF			5,600	±10%
NCA1206X7R682K25TRPF			6,800	±10%
NCA1206X7R822K25TRPF			8,200	±10%
NCA1206X7R103K25TRPF			10,000	±10%
NCA1206X7R123K25TRPF			12,000	±10%
NCA1206X7R153K25TRPF			15,000	±10%
NCA1206X7R183K25TRPF			18,000	±10%
NCA1206X7F106K25TF1F	1206		22,000	±10%
NCA1206X7R273K25TRPF			27,000	±10%
NCA1206X7H273K25TH17			33,000	±10%
NCA1206X7H335K25THT			180	±10%
NCA1206X7R221K50TRPF	_		220	±10%
	_			+
NCA1206X7R271K50TRPF			270	±10%
NCA1206X7R331K50TRPF			330	±10%
NCA1206X7R391K50TRPF			390	±10%
NCA1206X7R471K50TRPF			470	±10%
NCA1206X7R561K50TRPF			560	±10%
NCA1206X7R681K50TRPF	_		680	±10%
NCA1206X7R821K50TRPF			820	±10%
NCA1206X7R102K50TRPF			1,000	±10%
NCA1206X7R122K50TRPF			1,200	±10%
NCA1206X7R152K50TRPF		50	1,500	±10%
NCA1206X7R182K50TRPF			1,800	±10%
NCA1206X7R222K50TRPF			2,200	±10%
NCA1206X7R272K50TRPF			2,700	±10%
NCA1206X7R332K50TRPF			3,300	±10%
NCA1206X7R392K50TRPF			3,900	±10%
NCA1206X7R472K50TRPF			4,700	±10%
NCA1206X7R562K50TRPF			5,600	±10%
NCA1206X7R682K50TRPF			6,800	±10%
NCA1206X7R822K50TRPF			8,200	±10%
NCA1206X7R103K50TRPF	7		10,000	±10%
NCA1206X7R153K50TRPF			15,000	±10%
NCA1206X7R223K50TRPF	ı		22,000	±10%
	1	1	,,	New Values

New Values

X5R 0805 STANDARD VALUES AND VOLTAGES

Part Number		Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA0805X5R104k	(16TRPF	0805	16	100,000	±10%



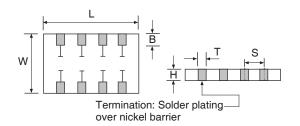
Y5V 1206 STANDARD VALUES AND VOLTAGES

Part Number	Case Size	Voltage	Capacitance (pF)	Standard Tol.
NCA1206Y5V103Z16TRPF			10,000	+80%/-20%
NCA1206Y5V223Z16TRPF			22,000	+80%/-20%
NCA1206Y5V333Z16TRPF		16	33,000	+80%/-20%
NCA1206Y5V473Z16TRPF			47,000	+80%/-20%
NCA1206Y5V104Z16TRPF			100,000	+80%/-20%
NCA1206Y5V103Z25TRPF			10,000	+80%/-20%
NCA1206Y5V223Z25TRPF		25	22,000	+80%/-20%
NCA1206Y5V473Z25TRPF	1206	25	47,000	+80%/-20%
NCA1206Y5V104Z25TRPF			100,000	+80%/-20%
NCA1206Y5V103Z50TRPF			10,000	+80%/-20%
NCA1206Y5V153Z50TRPF			15,000	+80%/-20%
NCA1206Y5V223Z50TRPF		50	22,000	+80%/-20%
NCA1206Y5V333Z50TRPF		50	33,000	+80%/-20%
NCA1206Y5V473Z50TRPF			47,000	+80%/-20%
NCA1206Y5V104Z50TRPF			100,000	+80%/-20%

New Values

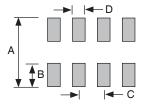
PART DIMENSIONS (mm)

Series	NCA0805	NCA1206		
L	2.00 ± 0.20	3.20 ± 0.20		
W	1.25 ± 0.20	1.60 ± 0.20		
Н	1.00 max.	1.30 max.		
S	0.50 ± 0.10	0.80 ± 0.20		
Т	0.28 ± 0.10	0.40 ± 0.15		
В	0.25 ±0.15	0.30 ± 0.20		

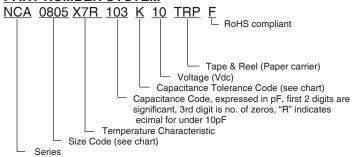


RECOMMENDED LAND PATTERN (mm)

Series	А	В	С	D		
NCA0805	1.65 ± 0.10	0.55 ± 0.05	0.5 ± 0.05	0.25 ± 05		
NCA1206 2.60 ± 0.10		0.80 ± 0.05	0.8 ± 0.10	0.45 ±0.1		



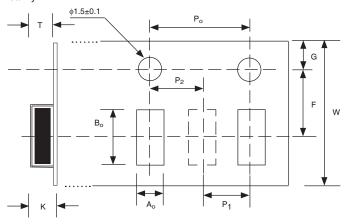
PART NUMBER SYSTEM



TAPE DIMENSIONS (mm)

	A_{0}	B _o	F	G	K	P _o	P ₁	P ₂	Т	W
See note 1		3.50 ±0.05	1.75 ±0.1	2.50 max.	4.0 ±0.1	4.0 ±0.1	2.0 ±0.05	0.6 max.	8.0 ±0.3	

Note 1 - These dimensions are deterined by the maximum dimensions of the part. Clearance between the sides of the components shall be 0.05mm (min.) and 0.50mm (max). The clearance shall not allow the component to rotate more than 20° within the carrier cavity.



REEL DIMENSIONS (mm)

Α	В	С	D	E	W	
178 ± 2.0	50 min.	13.0 ± 0.2	20.2 min.	1.5 min.	8.4 ± 1.0	

