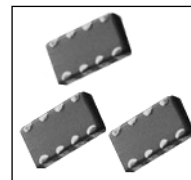


### FEATURES

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

*Expanded  
Value  
Range*



| 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) | >10GΩ                            | >10GΩ              | >10GΩ            | >10GΩ          |
| DISSIPATION FACTOR                     | ≤ 0.1%                           | ≤ 5%               | ≤ 5%             | 1206 ≤ 7%      |

### NPO 0805 STANDARD VALUES AND VOLTAGES

| Part Number           | Case Size | Voltage | Capacitance (pF) | Standard Tol. |
|-----------------------|-----------|---------|------------------|---------------|
| NCA0805NPO101J16TRPF  | 0805      | 16      | 100              | ±5%           |
| NCA0805NPO221J16TRPF  |           |         | 220              | ±5%           |
| NCA0805NPO100J25TRPF  |           |         | 10               | ±5%           |
| NCA0805NPO150J25TRPF  |           | 25      | 15               | ±5%           |
| NCA0805NPO220J25TRPF  |           |         | 22               | ±5%           |
| NCA0805NPO330J25TRPF  |           |         | 33               | ±5%           |
| NCA0805NPO470J25TRPF  |           |         | 47               | ±5%           |
| NCA0805NPO680J25TRPF  |           |         | 68               | ±5%           |
| NCA0805NPO820J25TRPF  |           |         | 82               | ±5%           |
| NCA0805NPO101J25TRPF  |           |         | 100              | ±5%           |
| NCA0805NPO151J25TRPF  |           |         | 150              | ±5%           |
| NCA0805NPO181J25TRPF  |           |         | 180              | ±5%           |
| NCA0805NPO221J25TRPF  |           |         | 220              | ±5%           |
| NCA0805NPO271J25TRPF  |           |         | 270              | ±5%           |
| NCA0805NPO100J50TRPF  |           | 50      | 10               | ±5%           |
| NCA0805NPO150J50TRPF  |           |         | 15               | ±5%           |
| NCA0805NPO180J50TRPF  |           |         | 18               | ±5%           |
| NCA0805NPO220J50TRPF  |           |         | 22               | ±5%           |
| NCA0805NPO330J50TRPF  |           |         | 33               | ±5%           |
| NCA0805NPO390J50TRPF  |           |         | 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 |           | 100     | 10               | ±5%           |
| NCA0805NPO150J100TRPF |           |         | 15               | ±5%           |
| NCA0805NPO220J100TRPF |           |         | 22               | ±5%           |
| NCA0805NPO330J100TRPF |           |         | 33               | ±5%           |
| NCA0805NPO470J100TRPF |           |         | 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 | 0805      | 100     | 180              | ±5%           |
| NCA0805NPO221J100TRPF |           |         | 220              | ±5%           |
| NCA0805NPO271J100TRPF |           |         | 270              | ±5%           |

New Values

### NPO 1206 STANDARD VALUES AND VOLTAGES

| Part Number           | Case Size | Voltage | Capacitance (pF) | Standard Tol. |
|-----------------------|-----------|---------|------------------|---------------|
| NCA1206NPO100J16TRPF  | 1206      | 16      | 10               | ±5%           |
| NCA1206NPO220J16TRPF  |           |         | 22               | ±5%           |
| NCA1206NPO330J16TRPF  |           |         | 33               | ±5%           |
| NCA1206NPO470J16TRPF  |           |         | 47               | ±5%           |
| NCA1206NPO680J16TRPF  |           |         | 68               | ±5%           |
| NCA1206NPO820J16TRPF  |           |         | 82               | ±5%           |
| NCA1206NPO101J16TRPF  |           |         | 100              | ±5%           |
| NCA1206NPO221J16TRPF  |           |         | 220              | ±5%           |
| NCA1206NPO331J16TRPF  |           |         | 330              | ±5%           |
| NCA1206NPO471J16TRPF  |           |         | 470              | ±5%           |
| NCA1206NPO100J25TRPF  |           | 25      | 10               | ±5%           |
| NCA1206NPO150J25TRPF  |           |         | 15               | ±5%           |
| NCA1206NPO220J25TRPF  |           |         | 22               | ±5%           |
| NCA1206NPO330J25TRPF  |           |         | 33               | ±5%           |
| NCA1206NPO470J25TRPF  |           |         | 47               | ±5%           |
| NCA1206NPO680J25TRPF  |           |         | 68               | ±5%           |
| NCA1206NPO820J25TRPF  |           |         | 82               | ±5%           |
| NCA1206NPO101J25TRPF  |           |         | 100              | ±5%           |
| NCA1206NPO151J25TRPF  |           |         | 150              | ±5%           |
| NCA1206NPO181J25TRPF  |           |         | 180              | ±5%           |
| NCA1206NPO221J25TRPF  |           |         | 220              | ±5%           |
| NCA1206NPO271J25TRPF  |           |         | 270              | ±5%           |
| NCA1206NPO331J25TRPF  |           |         | 330              | ±5%           |
| NCA1206NPO471J25TRPF  |           |         | 470              | ±5%           |
| NCA1206NPO100J50TRPF  |           | 50      | 10               | ±5%           |
| NCA1206NPO150J50TRPF  |           |         | 15               | ±5%           |
| NCA1206NPO180J50TRPF  |           |         | 18               | ±5%           |
| NCA1206NPO220J50TRPF  |           |         | 22               | ±5%           |
| NCA1206NPO330J50TRPF  |           |         | 33               | ±5%           |
| NCA1206NPO390J50TRPF  |           |         | 39               | ±5%           |
| NCA1206NPO470J50TRPF  |           |         | 47               | ±5%           |
| NCA1206NPO560J50TRPF  |           |         | 56               | ±5%           |
| NCA1206NPO680J50TRPF  |           |         | 68               | ±5%           |
| NCA1206NPO820J50TRPF  |           |         | 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  |           |         | 470              | ±5%           |
| NCA1206NPO100J100TRPF |           | 100     | 10               | ±5%           |
| NCA1206NPO150J100TRPF |           |         | 15               | ±5%           |
| NCA1206NPO180J100TRPF |           |         | 18               | ±5%           |
| NCA1206NPO220J100TRPF |           |         | 22               | ±5%           |
| NCA1206NPO330J100TRPF |           |         | 33               | ±5%           |
| NCA1206NPO390J100TRPF |           |         | 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 | 1206      | 100     | 120              | ±5%           |
| NCA1206NPO151J100TRPF |           |         | 150              | ±5%           |
| NCA1206NPO181J100TRPF |           |         | 180              | ±5%           |
| NCA1206NPO221J100TRPF |           |         | 220              | ±5%           |
| NCA1206NPO271J100TRPF |           |         | 270              | ±5%           |
| NCA1206NPO331J100TRPF |           |         | 330              | ±5%           |
| NCA1206NPO391J100TRPF |           |         | 390              | ±5%           |
| NCA1206NPO471J100TRPF |           |         | 470              | ±5%           |

## X7R 0805 STANDARD VALUES AND VOLTAGES

New Values

| Part Number          | Case Size | Voltage | Capacitance (pF) | Standard Tol. |
|----------------------|-----------|---------|------------------|---------------|
| NCA0805X7R102K10TRPF | 0805      | 10      | 1,000            | ±10%          |
| NCA0805X7R152K10TRPF |           |         | 1,500            | ±10%          |
| NCA0805X7R222K10TRPF |           |         | 2,200            | ±10%          |
| NCA0805X7R332K10TRPF |           |         | 3,300            | ±10%          |
| NCA0805X7R472K10TRPF |           |         | 4,700            | ±10%          |
| NCA0805X7R682K10TRPF |           |         | 6,800            | ±10%          |
| NCA0805X7R103K10TRPF |           |         | 10,000           | ±10%          |
| NCA0805X7R153K10TRPF |           |         | 15,000           | ±10%          |
| NCA0805X7R223K10TRPF |           |         | 22,000           | ±10%          |
| NCA0805X7R333K10TRPF |           |         | 33,000           | ±10%          |
| NCA0805X7R473K10TRPF |           |         | 47,000           | ±10%          |
| NCA0805X7R683K10TRPF |           |         | 68,000           | ±10%          |
| NCA0805X7R823K10TRPF |           |         | 82,000           | ±10%          |
| NCA0805X7R104K10TRPF |           |         | 100,000          | ±10%          |
| NCA0805X7R102K16TRPF |           | 16      | 1,000            | ±10%          |
| NCA0805X7R122K16TRPF |           |         | 1,200            | ±10%          |
| NCA0805X7R152K16TRPF |           |         | 1,500            | ±10%          |
| NCA0805X7R182K16TRPF |           |         | 1,800            | ±10%          |
| NCA0805X7R222K16TRPF |           |         | 2,200            | ±10%          |
| NCA0805X7R272K16TRPF |           |         | 2,700            | ±10%          |
| NCA0805X7R332K16TRPF |           |         | 3,300            | ±10%          |
| NCA0805X7R392K16TRPF |           |         | 3,900            | ±10%          |
| NCA0805X7R472K16TRPF |           |         | 4,700            | ±10%          |
| NCA0805X7R562K16TRPF |           |         | 5,600            | ±10%          |
| NCA0805X7R682K16TRPF |           |         | 6,800            | ±10%          |
| NCA0805X7R822K16TRPF |           |         | 8,200            | ±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%          |
| NCA0805X7R104K16TRPF |           |         | 100,000          | ±10%          |

New Values

## X7R 0805 STANDARD VALUES AND VOLTAGES (CONTINUED)

| Part Number          | Case Size | Voltage | Capacitance (pF) | Standard Tol. |
|----------------------|-----------|---------|------------------|---------------|
| NCA0805X7R102K25TRPF | 0805      | 25      | 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 |           |         | 5,600            | ±10%          |
| NCA0805X7R682K25TRPF |           |         | 6,800            | ±10%          |
| NCA0805X7R822K25TRPF |           |         | 8,200            | ±10%          |
| NCA0805X7R103K25TRPF |           |         | 10,000           | ±10%          |
| NCA0805X7R153K25TRPF |           |         | 15,000           | ±10%          |
| NCA0805X7R223K25TRPF |           |         | 22,000           | ±10%          |
| NCA0805X7R333K25TRPF |           |         | 33,000           | ±10%          |
| NCA0805X7R473K25TRPF |           |         | 47,000           | ±10%          |
| NCA0805X7R683K25TRPF |           |         | 68,000           | ±10%          |
| NCA0805X7R104K25TRPF |           |         | 100,000          | ±10%          |
| NCA0805X7R102K50TRPF |           | 50      | 1,000            | ±10%          |
| NCA0805X7R152K50TRPF |           |         | 1,500            | ±10%          |
| NCA0805X7R222K50TRPF |           |         | 2,200            | ±10%          |
| NCA0805X7R332K50TRPF |           |         | 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 | 1206      | 16      | 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 |           |         | 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%          |

New Values

®

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

## X7R 1206 STANDARD VALUES AND VOLTAGES (CONTINUED)

| Part Number          | Case Size | Voltage | Capacitance (pF) | Standard Tol. |
|----------------------|-----------|---------|------------------|---------------|
| NCA1206X7R823K16TRPF | 1206      | 16      | 82,000           | ±10%          |
| NCA1206X7R104K16TRPF |           |         | 100,000          | ±10%          |
| NCA1206X7R181K25TRPF |           | 25      | 180              | ±10%          |
| NCA1206X7R221K25TRPF |           |         | 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 |           |         | 2,200            | ±10%          |
| NCA1206X7R272K25TRPF |           |         | 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%          |
| NCA1206X7R223K25TRPF |           |         | 22,000           | ±10%          |
| NCA1206X7R273K25TRPF |           |         | 27,000           | ±10%          |
| NCA1206X7R333K25TRPF |           |         | 33,000           | ±10%          |
| NCA1206X7R181K50TRPF |           | 50      | 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 |           |         | 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 |           |         | 10,000           | ±10%          |
| NCA1206X7R153K50TRPF |           |         | 15,000           | ±10%          |
| NCA1206X7R223K50TRPF |           |         | 22,000           | ±10%          |

New Values

## X5R 0805 STANDARD VALUES AND VOLTAGES

| Part Number          | Case Size | Voltage | Capacitance (pF) | Standard Tol. |
|----------------------|-----------|---------|------------------|---------------|
| NCA0805X5R104K16TRPF | 0805      | 16      | 100,000          | ±10%          |

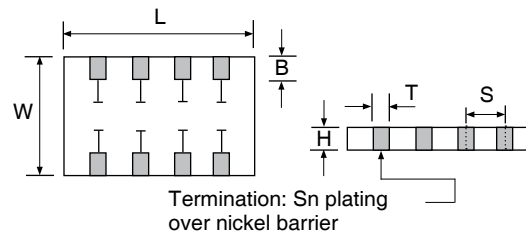
### Y5V 1206 STANDARD VALUES AND VOLTAGES

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

New Values

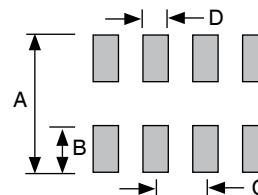
### PART DIMENSIONS (mm)

| Series | NCA0805     | NCA1206     |
|--------|-------------|-------------|
| L      | 2.00 ± 0.20 | 3.20 ± 0.20 |
| W      | 1.25 ± 0.20 | 1.60 ± 0.20 |
| H      | 1.00 max.   | 1.30 max.   |
| S      | 0.50 ± 0.10 | 0.80 ± 0.20 |
| T      | 0.28 ± 0.10 | 0.40 ± 0.15 |
| B      | 0.25 ± 0.15 | 0.30 ± 0.20 |

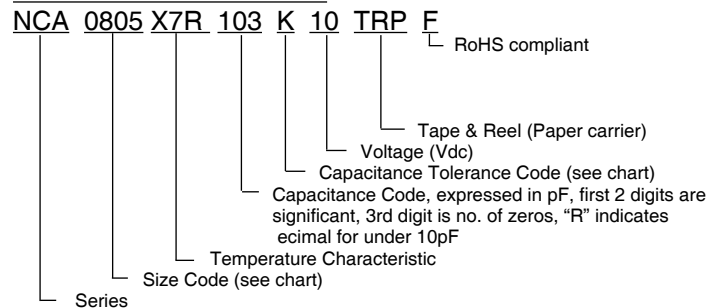


### RECOMMENDED LAND PATTERN (mm)

| Series  | A           | B           | C          | D           |
|---------|-------------|-------------|------------|-------------|
| NCA0805 | 1.65 ± 0.10 | 0.55 ± 0.05 | 0.5 ± 0.05 | 0.25 ± 0.05 |
| NCA1206 | 2.60 ± 0.10 | 0.80 ± 0.05 | 0.8 ± 0.10 | 0.45 ± 0.1  |



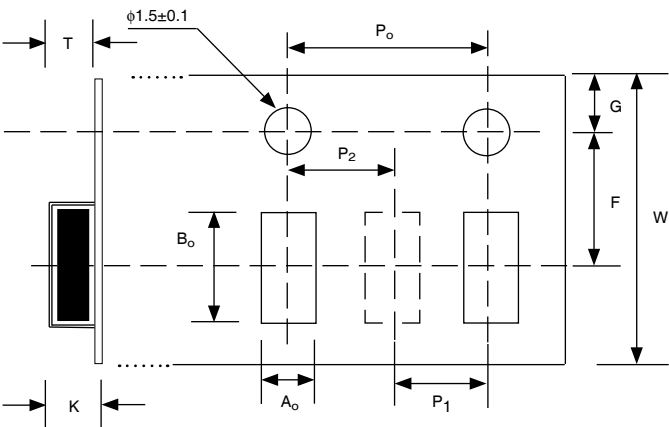
### PART NUMBER SYSTEM



TAPE DIMENSIONS (mm)

| A <sub>0</sub> | B <sub>0</sub> | F          | G         | K         | P <sub>0</sub> | P <sub>1</sub> | P <sub>2</sub> | T        | 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 determined 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)

| A         | B       | C          | D         | E        | W         |
|-----------|---------|------------|-----------|----------|-----------|
| 178 ± 2.0 | 50 min. | 13.0 ± 0.2 | 20.2 min. | 1.5 min. | 8.4 ± 1.0 |

