



**THE DATASHEET OF  
PE-1206CCMC222STS**



# 2-Line Chip Style Common Mode Chokes

ChipChoke™ CCMC Series



- Available in 0805 (2012) and 1206 (3216) size
- For USB2.0, 3.0 and other high speed differential signal lines (IEEE1394, LVDS)
- Suppression of common mode noise without attenuating the signal
- Large range of common mode impedance to fit with signal and noise level
- Magnetic shield versions available for lower Rdc and higher current features

## Electrical Specifications @ 25°C - Operating Temperature -40°C to +125°C

| Part Number<br>(25%)                             | Common Mode Impedance<br>@ 100MHz (Ω) | DC Resistance<br>(Ω MAX) | Rated Voltage<br>(Vdc) | Rated Current<br>(mA MAX) | Withstanding Voltage<br>(Vdc) | Insulation Resistance<br>(MΩ MIN) |
|--|---------------------------------------|--------------------------|------------------------|---------------------------|-------------------------------|-----------------------------------|
| <b>0805CCMCXTS - Magnetic Shield - 0805 Size</b> |                                       |                          |                        |                           |                               |                                   |
| PE-0805CCMC670STS                                | 67                                    | 0.25                     | 50                     | 400                       | 125                           | 10                                |
| PE-0805CCMC900STS                                | 90                                    | 0.35                     | 50                     | 330                       | 125                           | 10                                |
| PE-0805CCMC121STS                                | 120                                   | 0.30                     | 50                     | 370                       | 125                           | 10                                |
| PE-0805CCMC181STS                                | 180                                   | 0.35                     | 50                     | 330                       | 125                           | 10                                |
| PE-0805CCMC261STS                                | 260                                   | 0.40                     | 50                     | 300                       | 125                           | 10                                |
| PE-0805CCMC361STS                                | 360                                   | 0.45                     | 50                     | 280                       | 125                           | 10                                |
| <b>1206CCMCXTS - Magnetic Shield - 1206 Size</b> |                                       |                          |                        |                           |                               |                                   |
| PE-1206CCMC900STS                                | 90                                    | 0.3                      | 50                     | 370                       | 125                           | 10                                |
| PE-1206CCMC161STS                                | 160                                   | 0.40                     | 50                     | 340                       | 125                           | 10                                |
| PE-1206CCMC261STS                                | 260                                   | 0.50                     | 50                     | 310                       | 125                           | 10                                |
| PE-1206CCMC601STS                                | 600                                   | 0.80                     | 50                     | 260                       | 125                           | 10                                |
| PE-1206CCMC102STS                                | 1000                                  | 1.00                     | 50                     | 230                       | 125                           | 10                                |
| PE-1206CCMC222STS                                | 2200                                  | 1.20                     | 50                     | 200                       | 125                           | 10                                |

**Notes:**

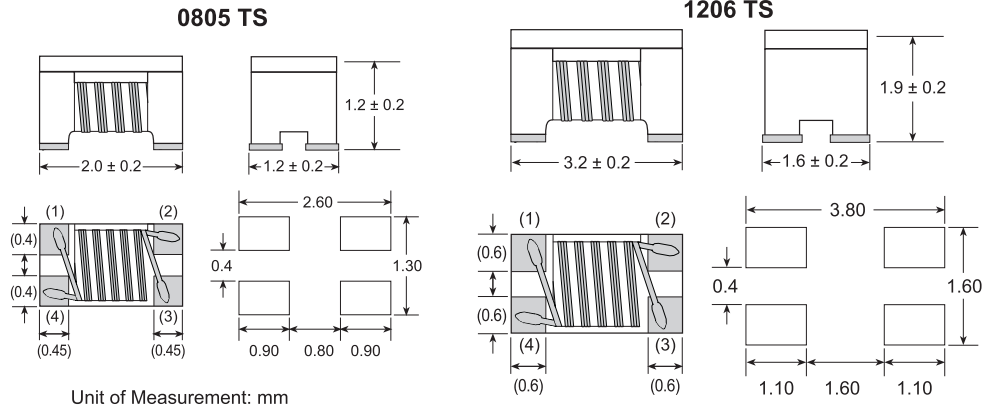
1. These part numbers are lead free and RoHS compliant. No additional suffix or identifier is required.

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## Mechanicals

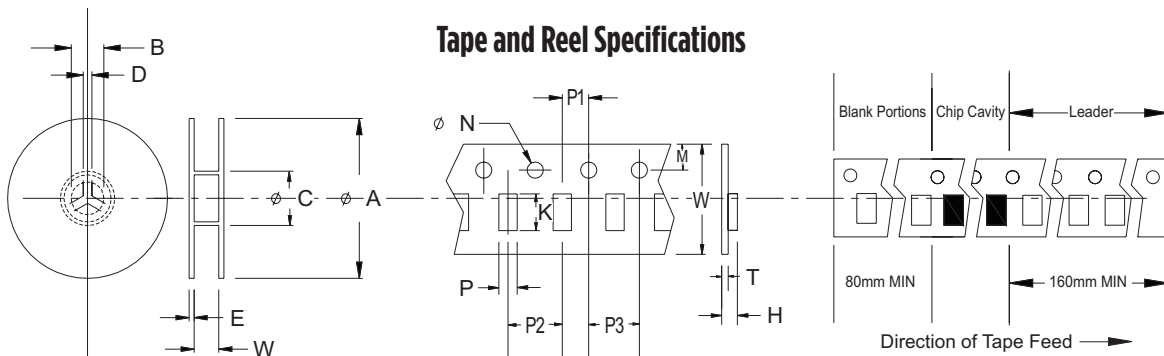
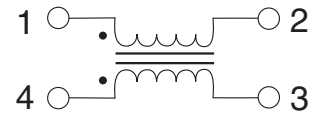
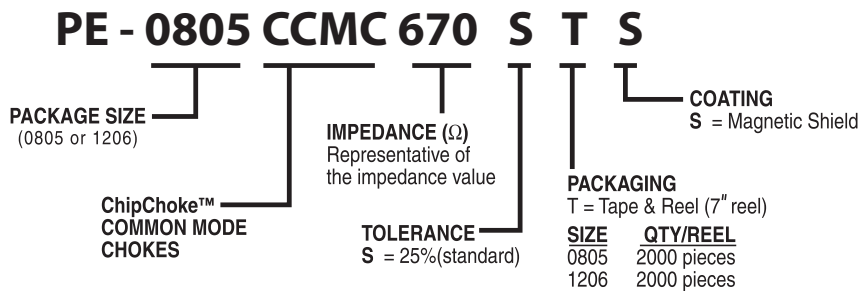
0805 TS, 1206 TS



## Part Number Legend

## Schematics

PE-0805CCMC670STH



# 2-Line Chip Style Common Mode Chokes

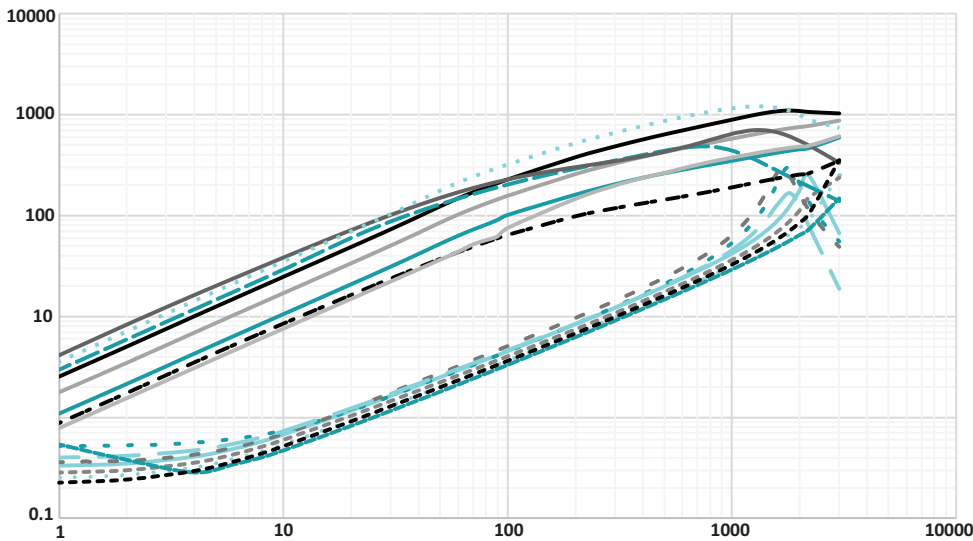
ChipChoke™ CCMC Series

## Packaging Specifications

| Series  | Parts per Reel | Reel Dimensions (mm) |    |    |     |     | Tape Dimensions (mm) |     |     |     |      |      |      |      |      |      |      |
|---------|----------------|----------------------|----|----|-----|-----|----------------------|-----|-----|-----|------|------|------|------|------|------|------|
|         |                | A                    | B  | C  | D   | E   | W                    | P1  | P2  | P3  | H    | T    | K    | M    | N    | P    |      |
| 0805 TS | 2000           | 178                  | 21 | 75 | 2.0 | 2.5 | 8.0                  | 2.0 | 4.0 | 4.0 | 4.0  | 1.30 | 0.3  | 2.25 | 1.75 | 1.5  | 1.42 |
| 1206 TS | 2000           | 178                  | 21 | 75 | 2.0 | 2.5 | 8.0                  | 2.0 | 4.0 | 4.0 | 2.10 | 0.2  | 3.50 | 1.75 | 1.5  | 1.90 |      |

## Impedance vs Frequency

PE-0805CCMCXXXSTS



| Common Mode |                  |
|-------------|------------------|
| ITEM        | Part Number      |
|             | PE-0805CCM670STS |
|             | PE-0805CCM900STS |
|             | PE-0805CCM121STS |
|             | PE-0805CCM181STS |
|             | PE-0805CCM261STS |
|             | PE-0805CCM361STS |

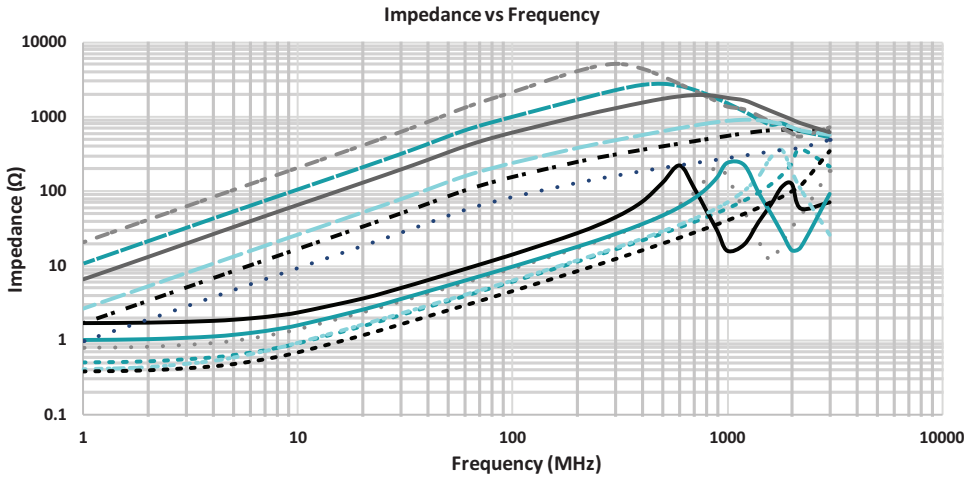
| Differential Mode |                  |
|-------------------|------------------|
| ITEM              | Part Number      |
|                   | PE-0805CCM670STS |
|                   | PE-0805CCM900STS |
|                   | PE-0805CCM121STS |
|                   | PE-0805CCM181STS |
|                   | PE-0805CCM261STS |
|                   | PE-0805CCM361STS |

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## Impedance vs Frequency

PE-1206CCMCXXXSTS



### Common Mode

| ITEM      | Part Number      |
|-----------|------------------|
| • • • • • | PE-1206CCM900STS |
| - - - - - | PE-1206CCM161STS |
| — — — — — | PE-1206CCM261STS |
| — — — — — | PE-1206CCM601STS |
| — — — — — | PE-1206CCM102STS |
| - - - - - | PE-1206CCM222STS |

### Differential Mode

| ITEM      | Part Number      |
|-----------|------------------|
| • • • • • | PE-1206CCM900STS |
| • • • • • | PE-1206CCM161STS |
| • • • • • | PE-1206CCM261STS |
| — — — — — | PE-1206CCM601STS |
| • • • • • | PE-1206CCM102STS |
| — — — — — | PE-1206CCM222STS |

## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

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 [Pulse Information](#)

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-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management