

# 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

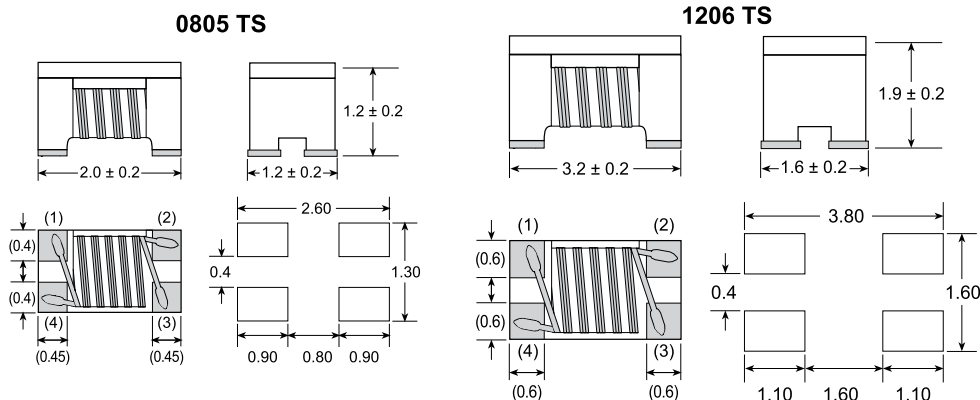
| Part Number<br>(25%)                             | Common Mode<br>Impedance<br>@ 100MHz (Ω) | DC<br>Resistance<br>(Ω MAX) | Rated<br>Voltage<br>(Vdc) | Rated<br>Current<br>(mA MAX) | Withstanding<br>Voltage<br>(Vdc) | Insulation<br>Resistance<br>(MΩ MIN) |
|--------------------------------------------------|------------------------------------------|-----------------------------|---------------------------|------------------------------|----------------------------------|--------------------------------------|
| <b>0805CCMCXTS - Magnetic Shield - 0805 Size</b> |                                          |                             |                           |                              |                                  |                                      |
| 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-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.

## Mechanicals

### 0805 TS, 1206 TS



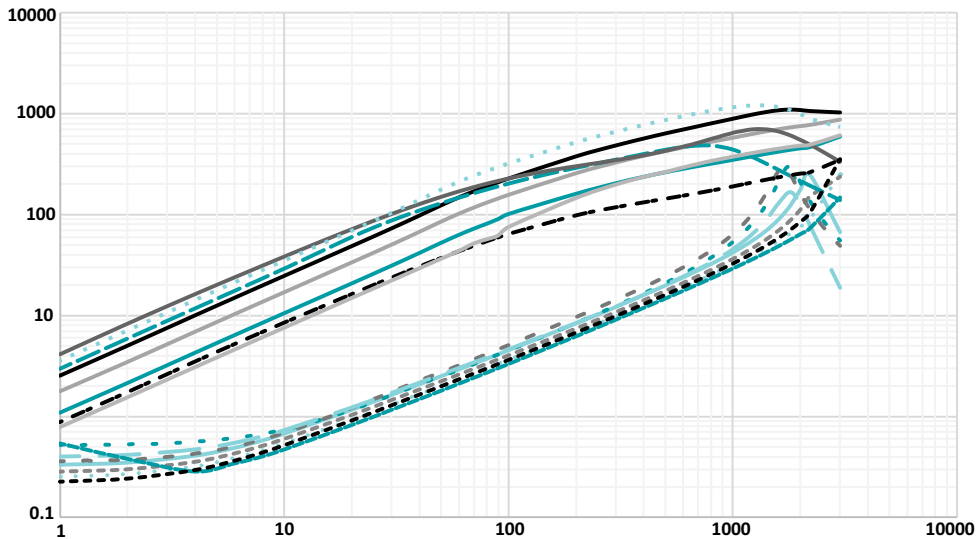
Unit if Measurement: mm

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## Impedance vs Frequency

PE-0805CCMCXXXSTS



### Common Mode

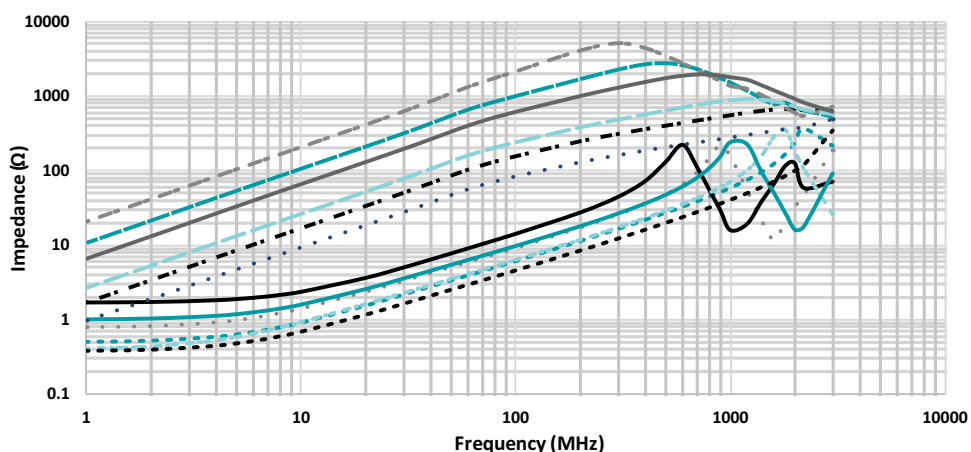
| ITEM | Part Number      |
|------|------------------|
|      | PE-0805CCM900STS |
|      | PE-0805CCM121STS |
|      | PE-0805CCM181STS |
|      | PE-0805CCM261STS |
|      | PE-0805CCM361STS |

### Differential Mode

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

## Impedance vs Frequency

PE-1206CCMCXXXSTS



### Common Mode

| ITEM | Part Number      |
|------|------------------|
|      | PE-1206CCM900STS |
|      | PE-1206CCM601STS |
|      | PE-1206CCM102STS |
|      | PE-1206CCM222STS |

### Differential Mode

| ITEM | Part Number      |
|------|------------------|
|      | PE-1206CCM900STS |
|      | PE-1206CCM601STS |
|      | PE-1206CCM102STS |
|      | PE-1206CCM222STS |

# 2-Line Chip Style Common Mode Chokes

ChipChoke™ CCMC Series

## Part Number Legend

## Schematics

0805 TS, 1206 TS

**PE - 0805 CCMC 670 S T S**

**PACKAGE SIZE**  
(0805 or 1206)

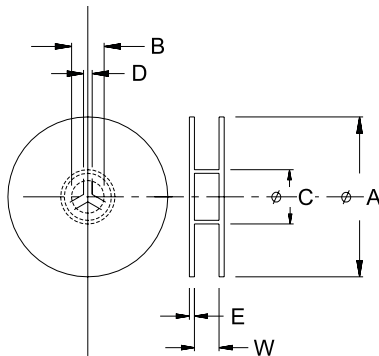
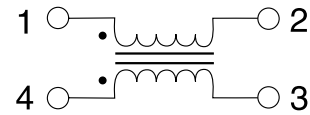
ChipChoke™  
COMMON MODE  
CHOKES

**IMPEDANCE ( $\Omega$ )**  
Representative of  
the impedance value

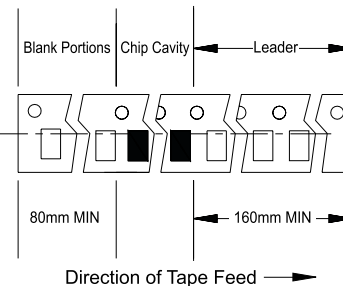
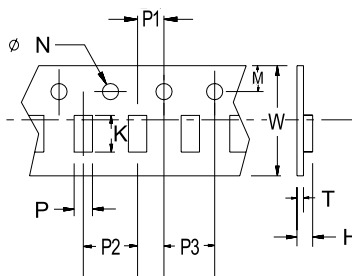
**TOLERANCE**  
S = 25%(standard)

**PACKAGING**  
T = Tape & Reel (7" reel)  
**SIZE** **QTY/REEL**  
0805 2000 pieces  
1206 2000 pieces

**COATING**  
S = Magnetic Shield



## Tape and Reel Specifications



## Packaging Specifications

0805 TS / 1206 TS

| 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 | 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 |

## For More Information:

Americas - [prodinfo@networkamericas@pulseelectronics.com](mailto:prodinfo@networkamericas@pulseelectronics.com) | Europe - [comms-apps-europe@pulseelectronics.com](mailto:comms-apps-europe@pulseelectronics.com) | Asia - [prodinfo@networkapac@pulseelectronics.com](mailto:prodinfo@networkapac@pulseelectronics.com)

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