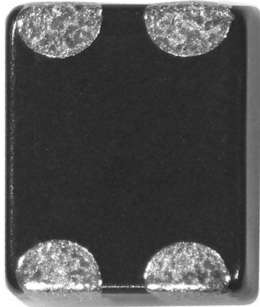


PE-0403MCMC900ST Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	PE-0403MCMC900ST-DG
Manufacturer	Pulse Electronics
Manufacturer Product Number	PE-0403MCMC900ST
Description	CMC 100MA 2LN 90 OHM SMD
Detailed Description	2 Line Common Mode Choke Surface Mount 90 Ohms @ 100 MHz 100mA DCR 4.5Ohm

This model PE-0403MCMC900ST is available at DiGi Electronics.

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Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

PE-0403MCMC9005T

Series:

0403

Filter Type:

Signal Line

Impedance @ Frequency:

90 Ohms @ 100 MHz

DC Resistance (DCR) (Max):

4.50hm

Voltage Rating - AC:

-

Ratings:

-

Features:

-

Size / Dimension:

0.049" L x 0.039" W (1.25mm x 1.00mm)

Package / Case:

0504 (1210 Metric), 4 Lead

Manufacturer:

Pulse Electronics

Product Status:

Active

Number of Lines:

2

Current Rating (Max):

100mA

Voltage Rating - DC:

5V

Operating Temperature:

-40°C ~ 85°C

Approval Agency:

-

Mounting Type:

Surface Mount

Height (Max):

0.026" (0.65mm)

Environmental & Export classification

RoHS Status:

RoHS Compliant

REACH Status:

REACH Unaffected

HTSUS:

8548.00.0000

Moisture Sensitivity Level (MSL):

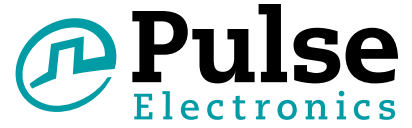
1 (Unlimited)

ECCN:

EAR99

Multi-Layer Common Mode Chip Choke

0201/0302/0403 Series



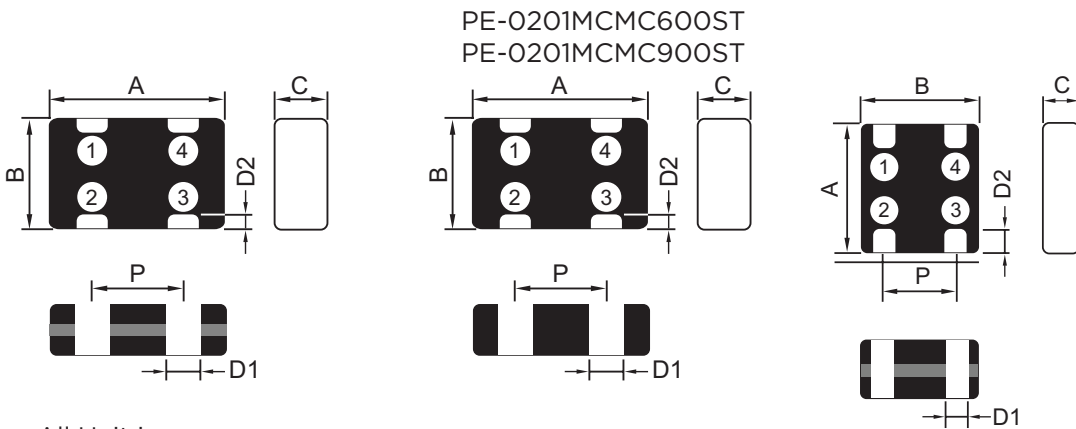
- For high speed differential signal lines (USB, LVDS, MIPI, MDDI, MHL, HDMI, DVI.)
- Suppression of common mode noise without attenuating the signal
- Multilayer -40~+85°C design

Electrical Specifications @ 25°C						
Part Number	Common Mode Impedance (Ω)	Test Frequency (MHz)	Rated Voltage (Vdc) MAX	Insulation Resistance (MΩ) MIN	DC Resistance (Ω) MAX	Rated Current (mA) MAX
PE-0201MCMC600ST	60±25%	100	5	100	4.75	50
PE-0201MCMC900ST	90±25%	100	5	100	6.5	50
PE-0302MCMC120GT	12±5Ω	100	5	100	2.5	130
PE-0302MCMC470MT	47±20%	100	5	100	5	100
PE-0302MCMC900MT	90±20%	100	5	100	6.5	100
PE-0403MCMC400ST	40±25%	100	5	100	2.5	100
PE-0403MCMC900ST	90±25%	100	5	100	4.5	100

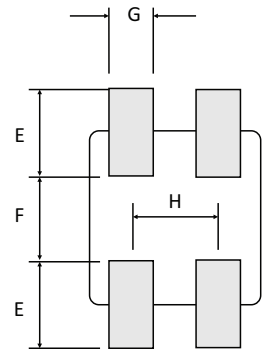
Tolerance: G = ±5Ω, M = ±20%, S = ±25%

Mechanical

Size	Chip Size				Land Patterns For Reflow Soldering					
	A	B	C	P	D1	D2	E	F	G	H
0201	0.65±0.05	0.50±0.05	0.30±0.05	0.40±0.10	0.15±0.10	0.12±0.10	0.27-0.33	0.17-0.23	0.20-0.26	0.48
0302	0.85±0.05	0.65±0.05	0.40 ±0.05	0.50±0.10	0.27±0.10	0.20+0.05/-0.1	0.25-0.35	0.25-0.35	0.25-0.35	0.50
0403	1.25±0.15	1.0±0.15	0.55 ±0.10	0.55±0.10	0.30±0.10	0.20±0.10	0.45-0.55	0.70-0.80	0.25-0.35	0.55



SUGGESTED LAND PATTERN



All Unit in mm

Unit Weight(0201) 0.0005 grams
 (0302) 0.0009 grams
 (0403) 0.0027 grams

Tape & Reel ...15000 (0201)/reel
 10000 (0302)/reel
 5000(0403)/reel

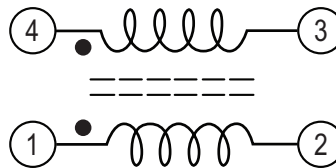
Multi-Layer Common Mode Chip Choke

0201/0302/0403 Series



Schematic

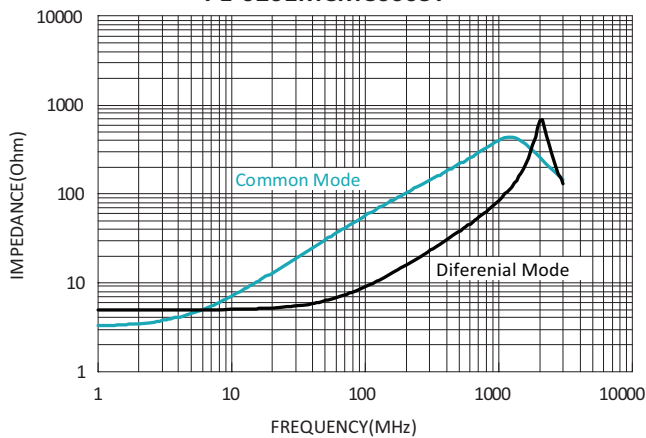
PE-XXXXXXXXXXXX



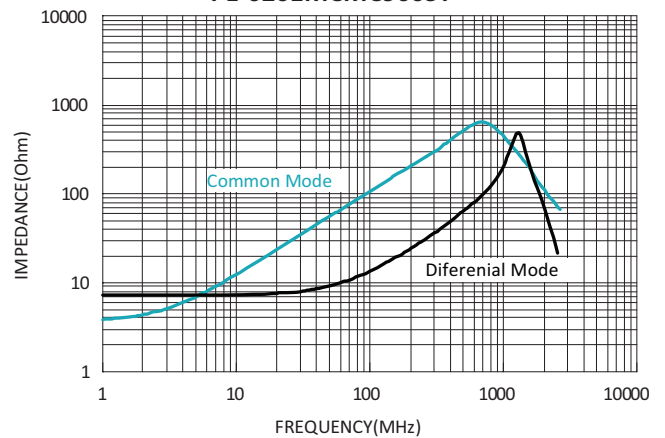
Impedance vs. Frequency

Characteristic Graphs

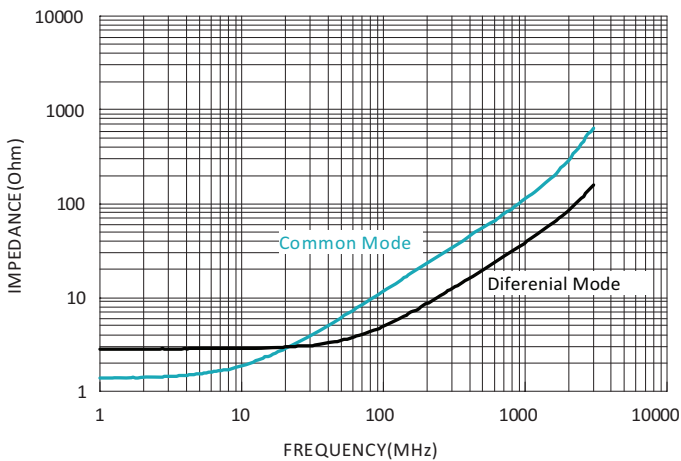
PE-0201MCMC600ST



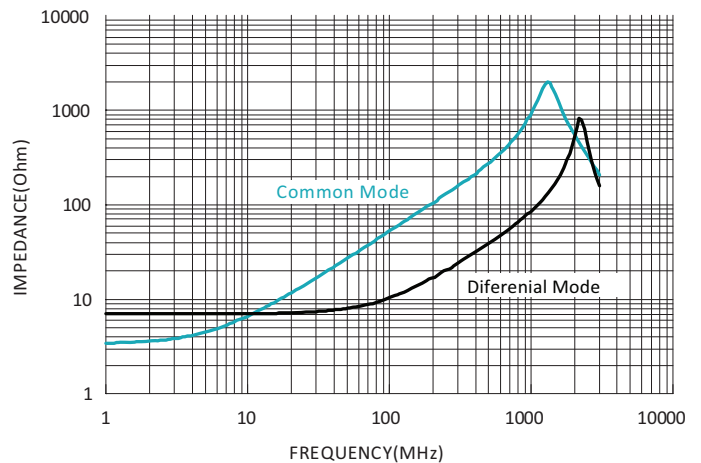
PE-0201MCMC900ST



PE-0302MCMC120GT

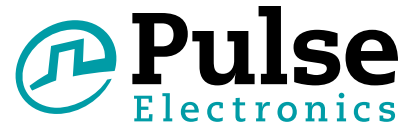


PE-0302MCMC470MT



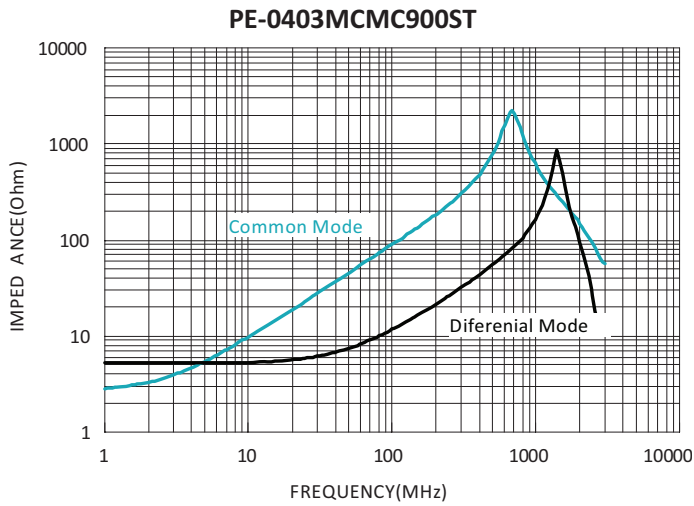
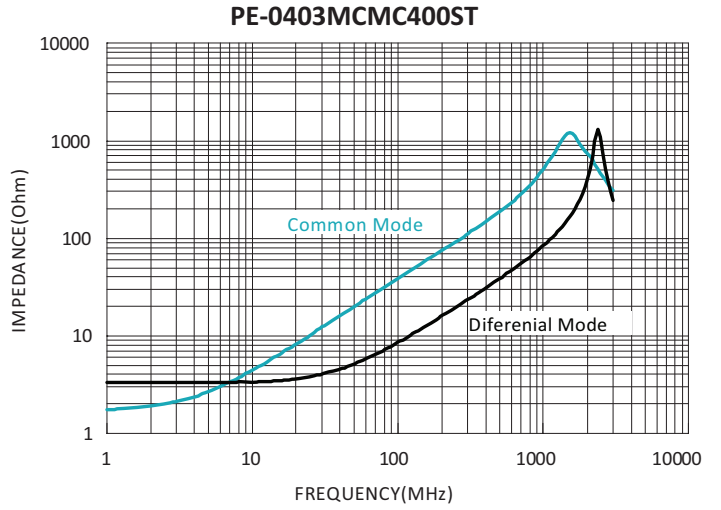
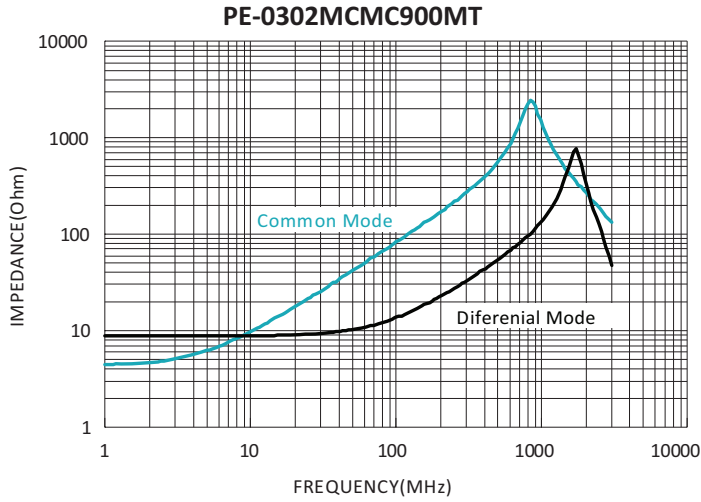
Multi-Layer Common Mode Chip Choke

0201/0302/0403 Series



Impedance vs. Frequency

Characteristic Graphs

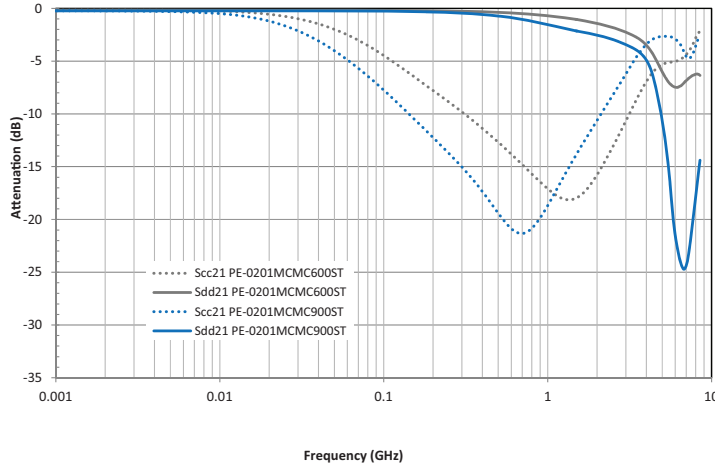


Multi-Layer Common Mode Chip Choke

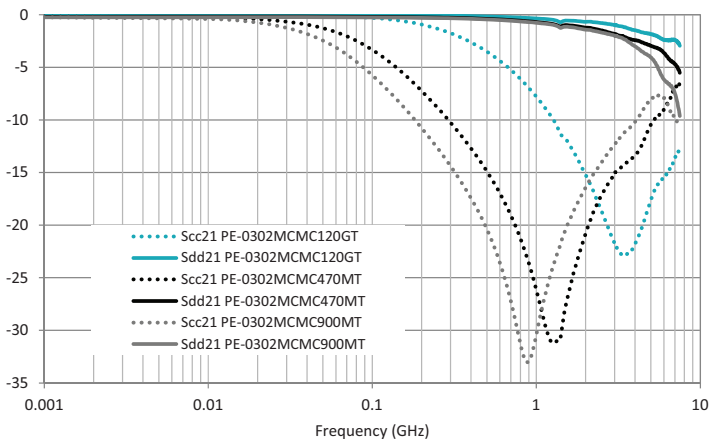
0201/0302/0403 Series

Characteristic Graphs - S Parameter

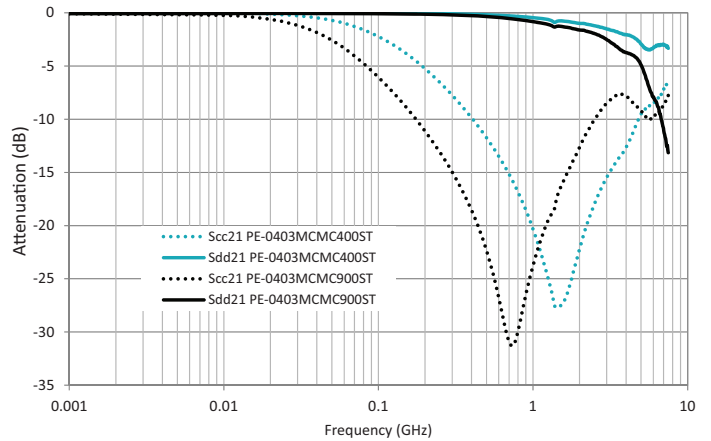
PE-0201MCMC series



PE-0302MMC Series



PE-0403MCMC Series



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