

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

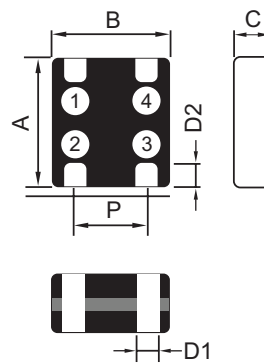
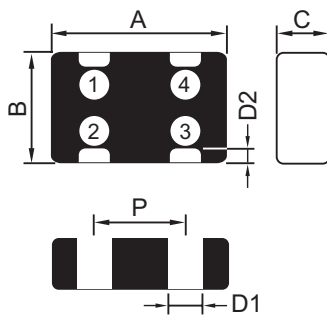
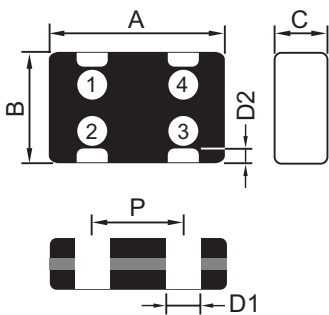
Part Number	Common Mode Impedance (Ω)	Test Frequency (MHz)	Rated Voltage (Vdc) MAX	Insulation Resistance (M Ω) MIN	DC Resistance (Ω) MAX	Rated Current (mA) MAX
PE-0201MCMC600ST	60 \pm 25%	100	5	100	4.75	50
PE-0201MCMC900ST	90 \pm 25%	100	5	100	6.5	50
PE-0302MCMC120GT	12 \pm 5 Ω	100	5	100	2.5	130
PE-0302MCMC470MT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

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

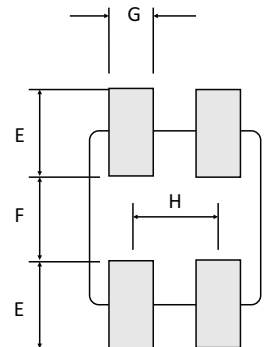
Mechanical

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

PE-0201MCMC600ST
PE-0201MCMC900ST



SUGGESTED LAND PATTERN



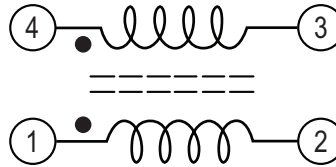
All Unit in mm

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

Schematic

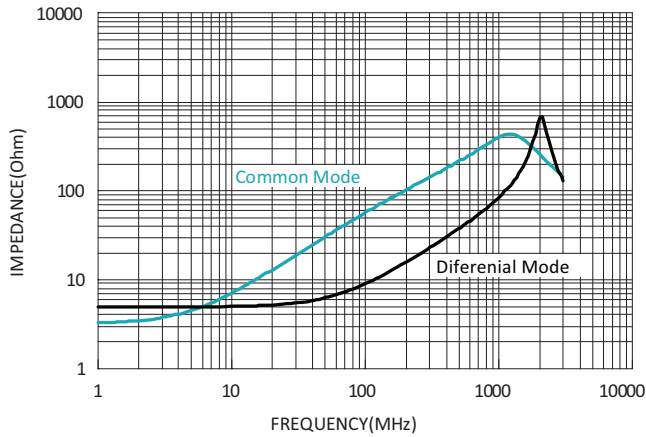
PE-XXXXXXXXXXXX



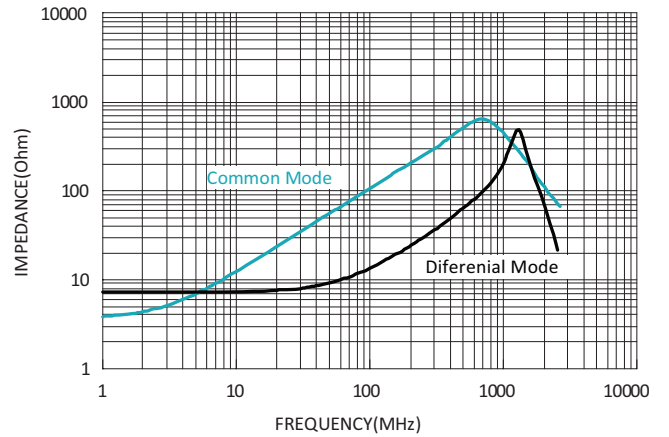
Impedance vs. Frequency

Characteristic Graphs

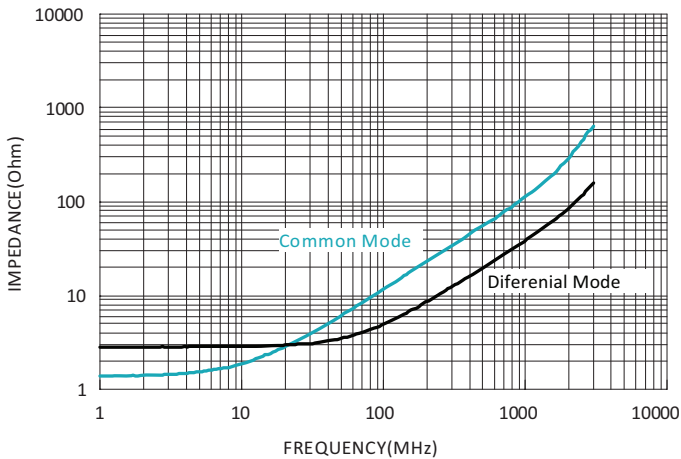
PE-0201MCMC600ST



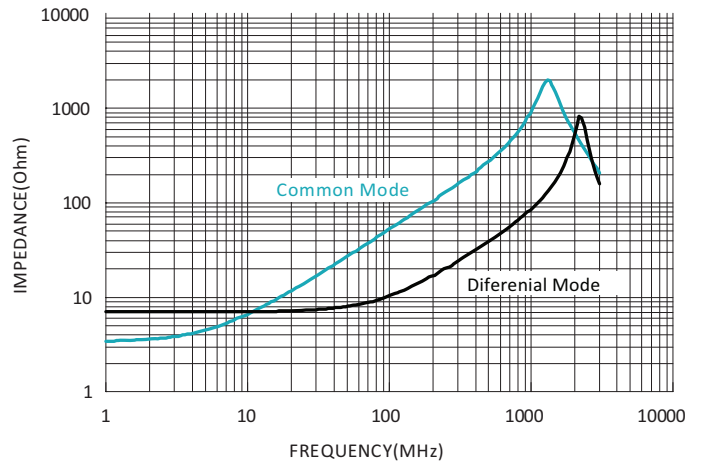
PE-0201MCMC900ST



PE-0302MCMC120GT

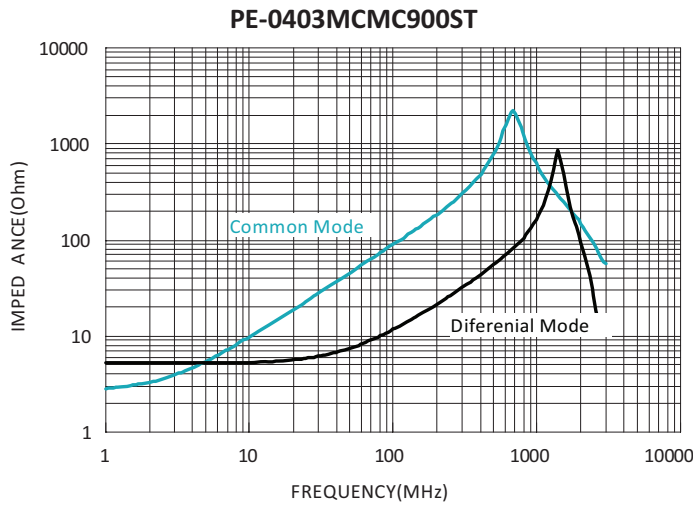
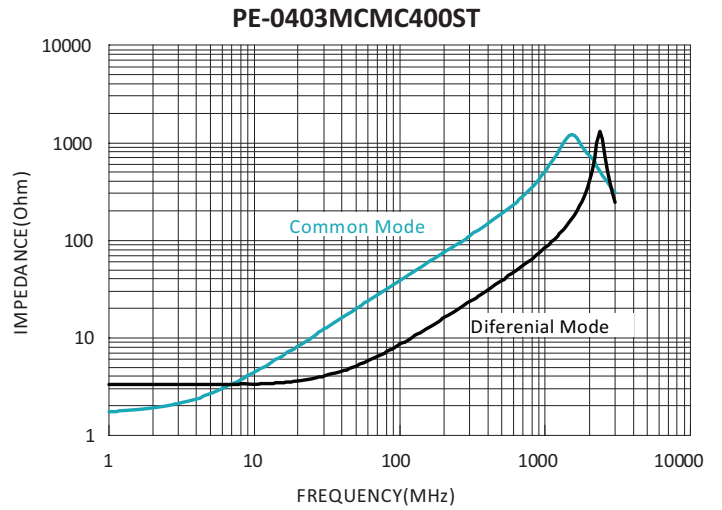
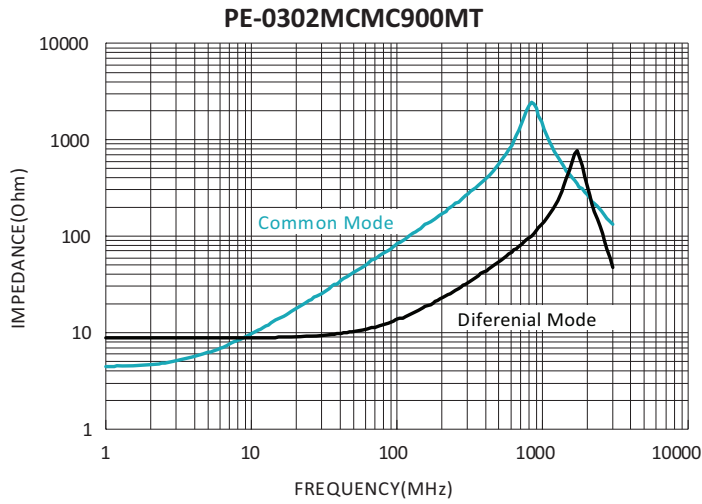


PE-0302MCMC470MT



Impedance vs. Frequency

Characteristic Graphs

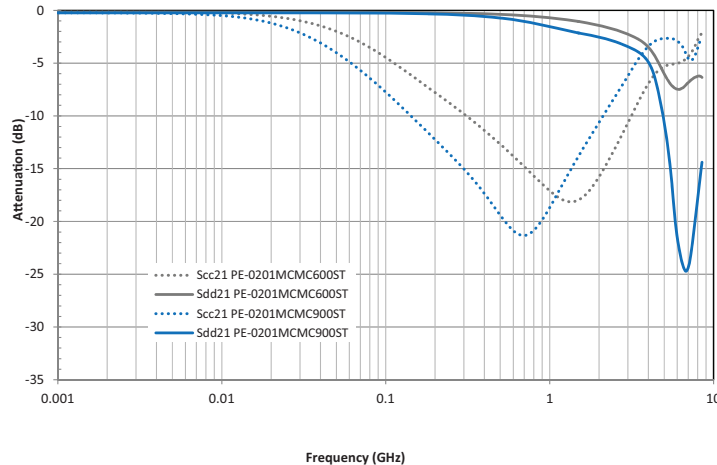


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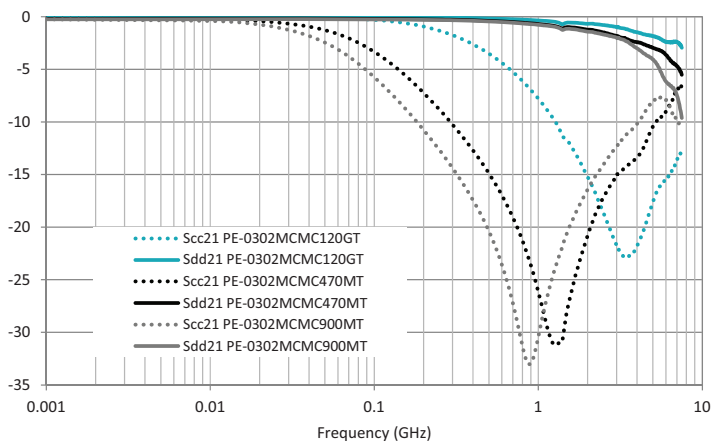
0201/0302/0403 Series

Characteristic Graphs - S Parameter

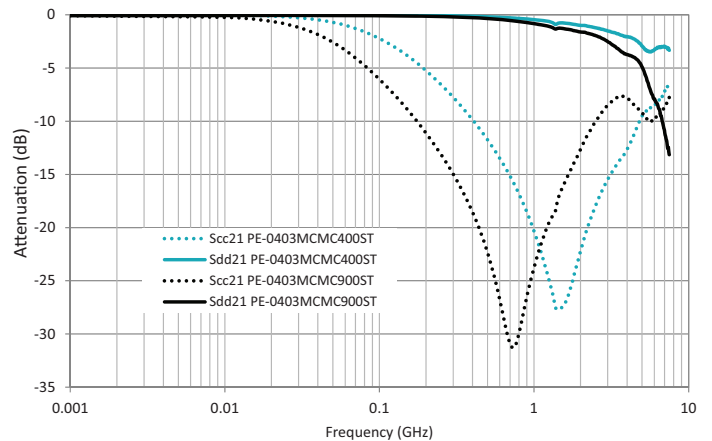
PE-0201MCMC series



PE-0302MMC Series



PE-0403MCMC Series



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