Multi-Layer Common Mode Chip Choke

0201/0302/0403 Series

Pulse Electronics

RoHS COMPLIANT



- *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*

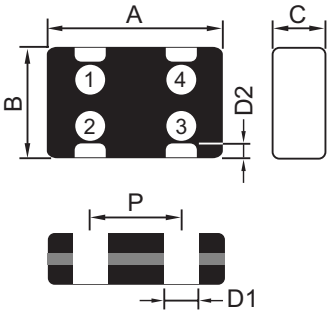
Electrical Specifications @ 25°C						
Part Number	Common Mode Impedance (Ω)	Test Frequency (MHz)	Rated Voltage (Vdc) MAX	Insulation Resistance (MΩ) MIN	DC Resistance (Ω) MAX	Rated Current (mA) MAX
PE-0201MCMC600ST	60±25%	100	5	100	4.75	50
PE-0201MCMC900ST	90±25%	100	5	100	6.5	50
PE-0302MCMC120GT	12±5Ω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

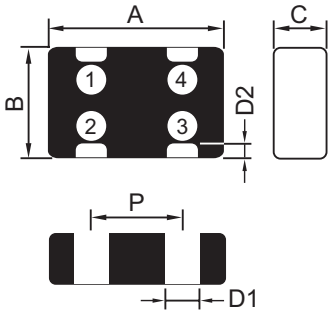
Tolerance: G = ±5Ω, M = ±20%, S = ±25%

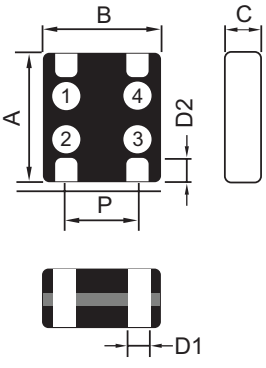
Mechanical

	Chip Size			Land Patterns For Reflow Soldering						
Size	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

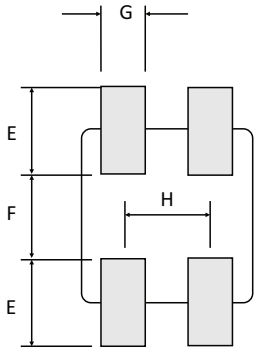
PE-0201MCMC600ST
PE-0201MCMC900ST







SUGGESTED LAND PATTERN



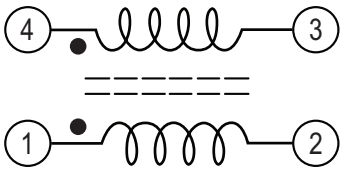
All Unit in mm

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

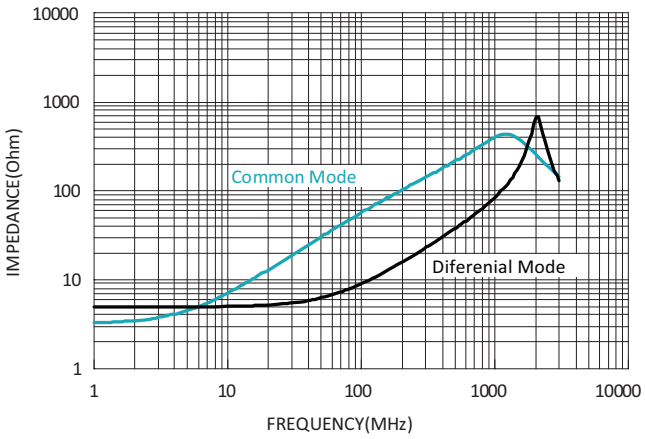
PE-XXXXXXXXXXXX



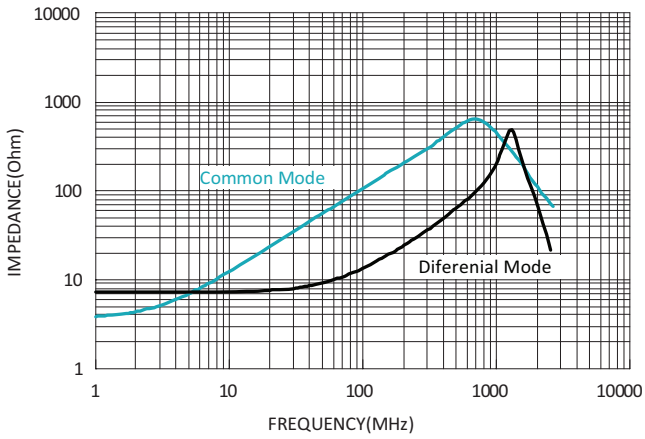
Impedance vs. Frequency

Characteristic Graphs

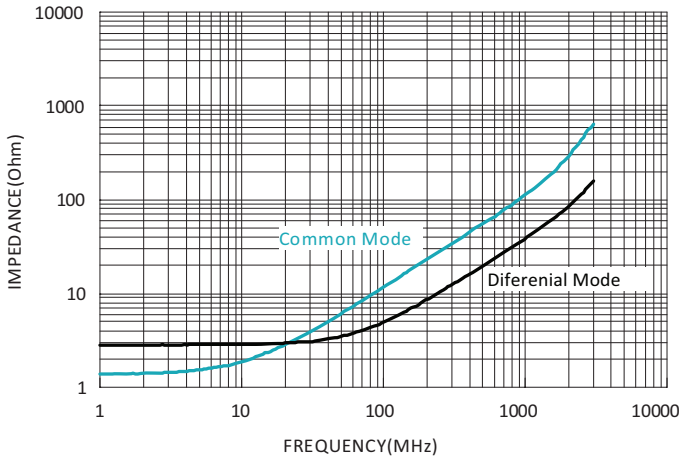
PE-0201MCMC600ST



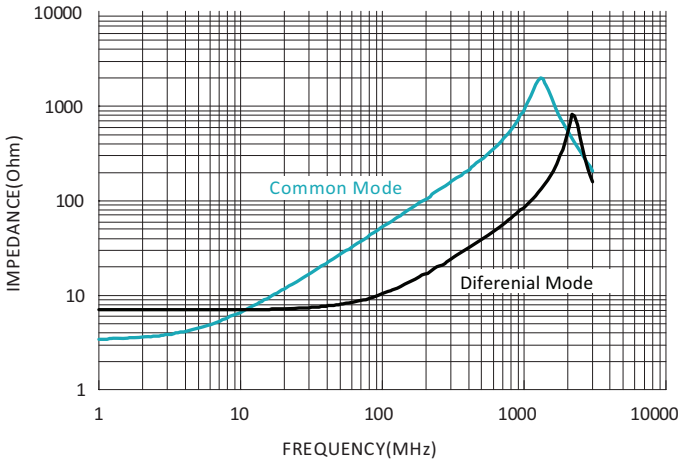
PE-0201MCMC900ST



PE-0302MCMC120GT



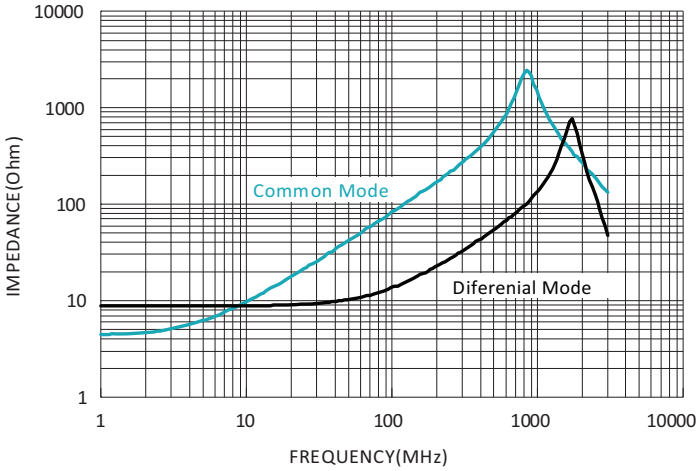
PE-0302MCMC470MT



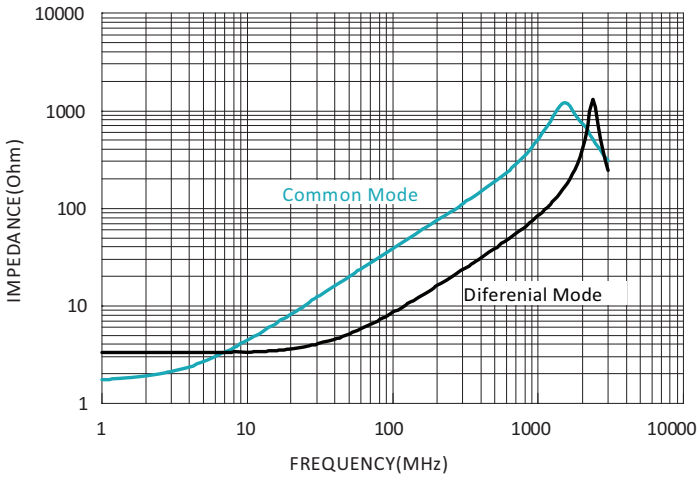
Impedance vs. Frequency

Characteristic Graphs

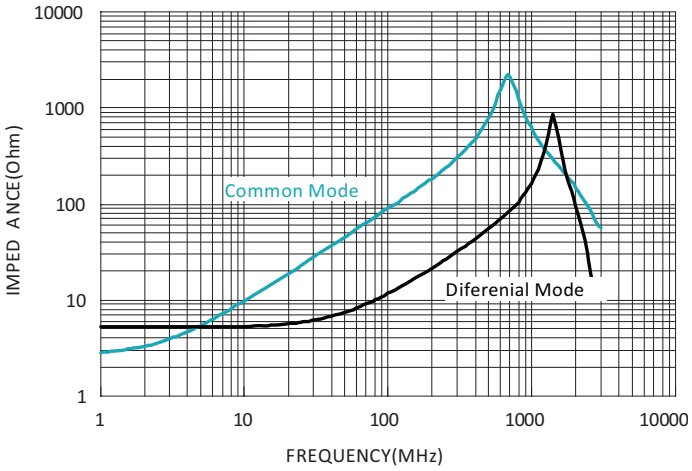
PE-0302MCMC900MT



PE-0403MCMC400ST



PE-0403MCMC900ST

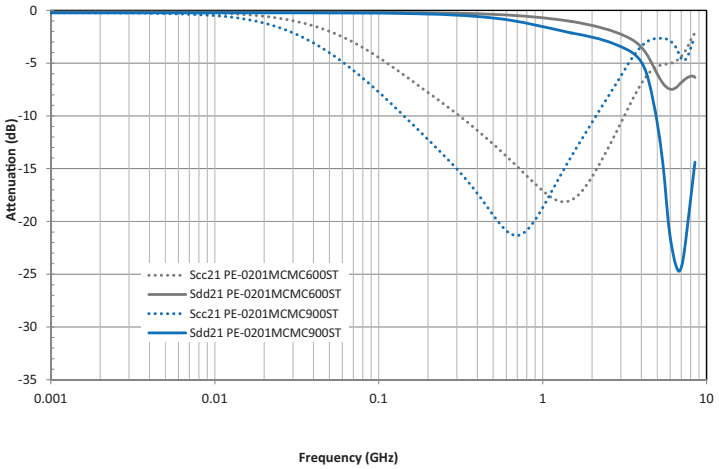


Multi-Layer Common Mode Chip Choke

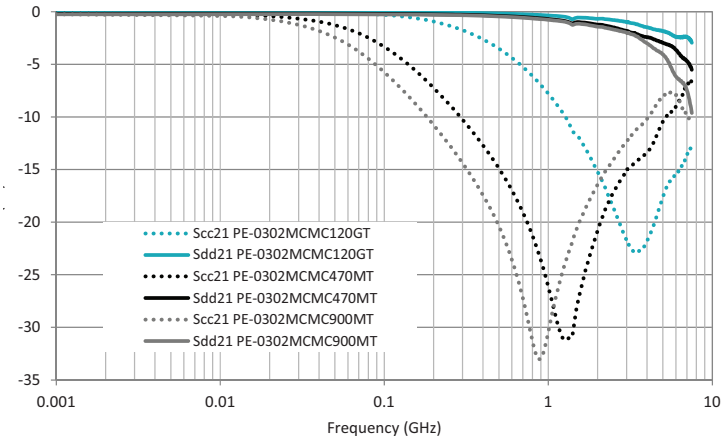
0201/0302/0403 Series

Characteristic Graphs - S Parameter

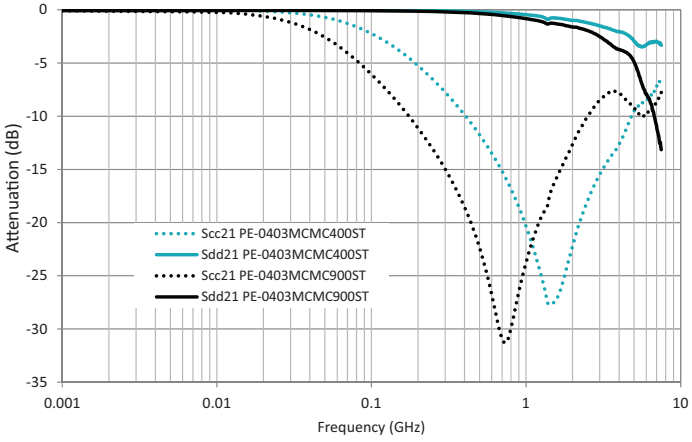
PE-0201MCMC series



PE-0302MMC Series



PE-0403MCMC Series



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