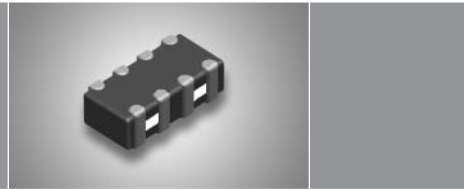


Chip Common Mode Filter Array

MCA Series



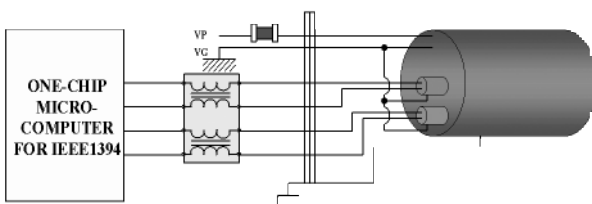
Features

- Powerful component with composite co-fired material to solve EMI problem for high-speed differential signal transmission line as USB, IEEE1394 and LVDS, because of no distortion to high speed signal transmission.
- High coupling constant : 0.99
- Small size and low profile.
- Various common mode impedance items of 90 to 550 ohm can be used, considering noise level and signal frequency.
- Small dimension enable higher density packaging.

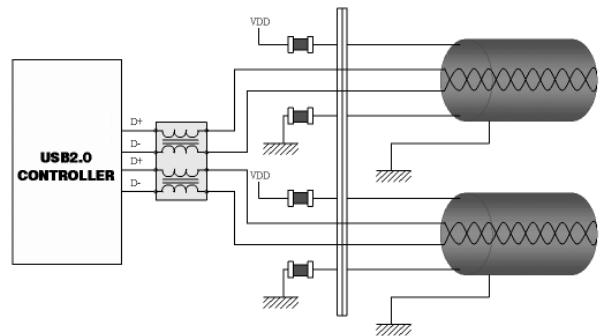
Applications

Common mode noise suppression of signal lines in High speed and high density digital equipment such as personal computer and facsimiles, modem, digital telephones.

IEEE 1394



USB 2.0



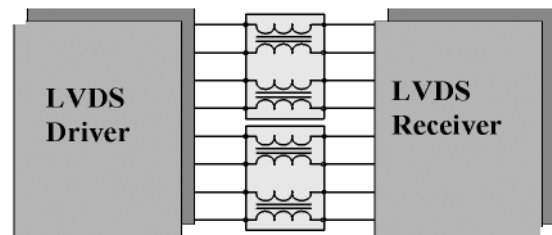
How to Order

MCA 3216 B 90 0 G B —

1 2 3 4 5 6 7 8

- 1 Series Type: MCM—Common Mode Filter
- 2 Size (mm): Length x Width
- 3 Material Code
B—for High Speed type
H—for Standard type
- 4 Impedance Value (Ω)/ $\pm 25\%$ ex.: 90 Ω → 900; 120 Ω → 121
- 5 Fixed Decimal Point
- 6 Rated current:
A=50mA, B=80mA, C=100mA, D=150mA, E=200mA, F=300mA
G=400mA, H=500mA, I=600mA, J=700mA, K=800mA
- 7 Soldering: Green Parts: A—Soldering Lead-Free, B—Lead-Free for whole chip
- 8 Packaging: E—Embossed plastic tape, 7" reel
N—Embossed anti-static electricity tape, 7" reel
T—Embossed anti-static electricity tape, 13" reel

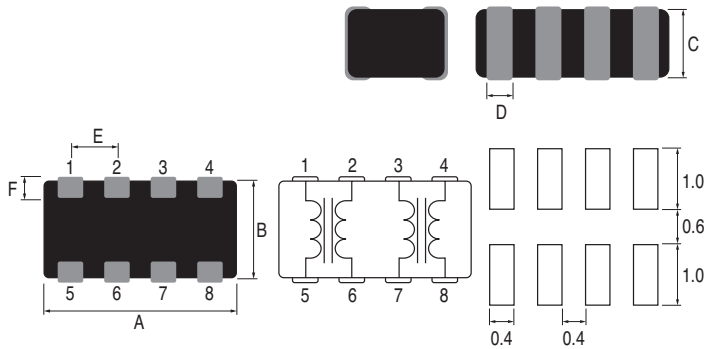
LVDS



Chip Common Mode Filter Array–MCA Series

► Dimensions

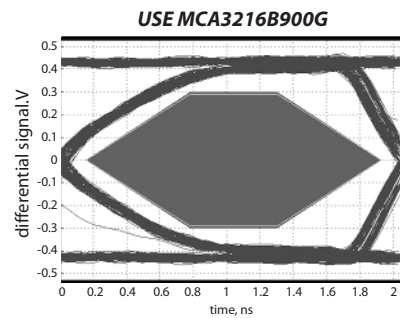
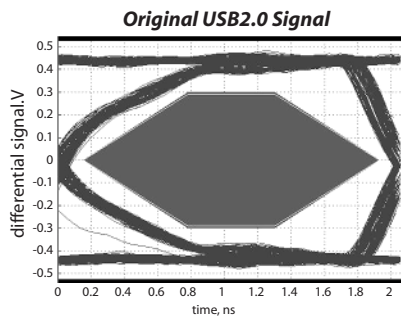
MCA 3216 series



Unit:mm

Size (EIA)	3216 (1206)
A	3.20±0.20
B	1.60±0.20
C	1.10±0.20
D	0.40±0.15
E	0.80±0.10
F	0.30±0.20

► Signal Quality Test Result

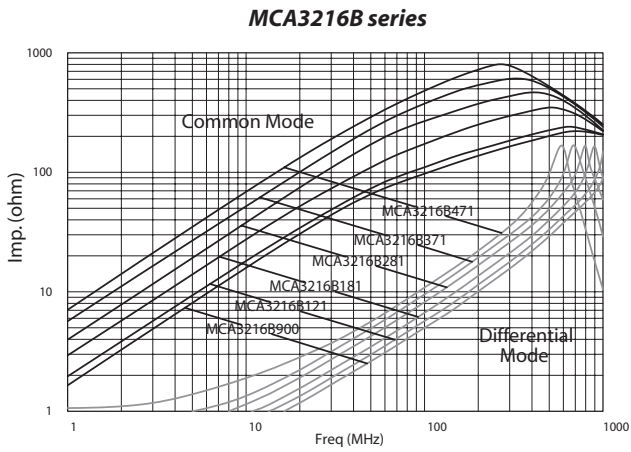


► Specifications

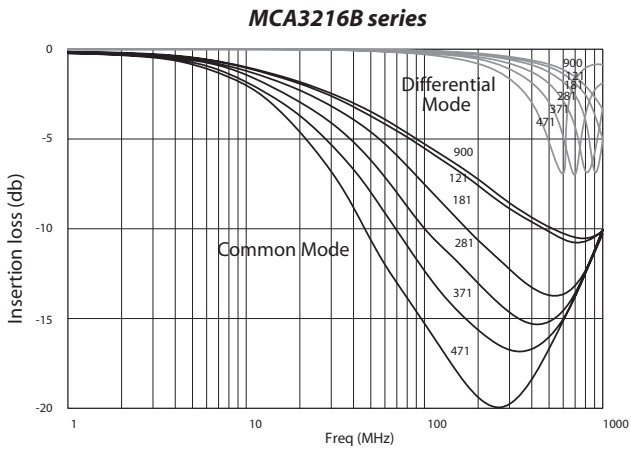
Part Number	Impedance at 100Mhz(Ω)	DCR Max. (Ω)	DCR typ. (Ω)	Rated Current (mA)	Rated Voltage (V)	Withstand Voltage (V)	Insulation resistance Min. (MΩ)
3216 (EIA 1206)							
MCA3216B900G	90	0.70	0.30	400	10	25	200
MCA3216B121F	120	0.80	0.35	300	10	25	200
MCA3216B181F	180	0.90	0.40	300	10	25	200
MCA3216B281F	280	1.00	0.50	300	10	25	200
MCA3216B371F	370	1.10	0.60	300	10	25	200
MCA3216B471E	470	1.20	0.70	200	10	25	200

Chip Common Mode Filter Array–MCA Series

Impedance vs. Frequency Characteristics



Insertion Loss vs. Frequency Characteristics



Package

Standard packing quantity : 3,000pcs/reel