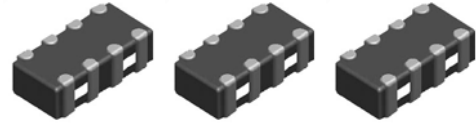


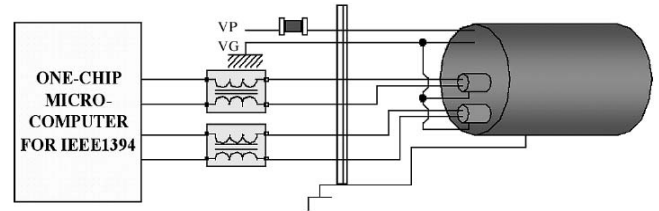
◆ Feature

1. Powerful component with composite co-fired material to solve EMI problem for high-speed differential signal transmission line as USB, IEEE1394 and LVDS, without distortion to high speed signal transmission
2. High coupling constant : 0.99
3. Small size and low profile
4. Various common mode impedance items of 90 to 220 ohm can be used, considering noise level and signal frequency
5. Small dimension enable higher density packaging

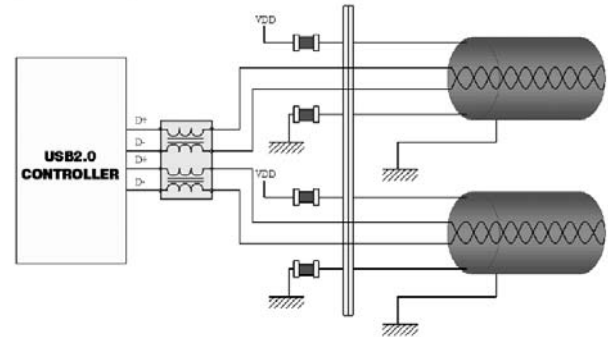
RoHS



IEEE 1394



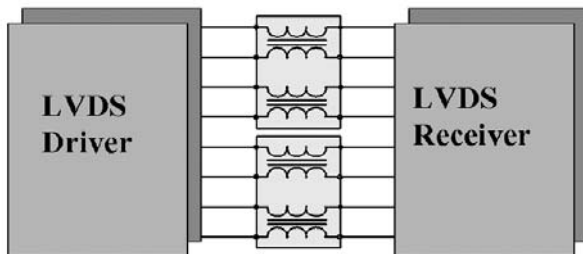
USB 2.0



◆ Application

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

LVDS



◆ How to Order

MCA 3216 B 90 0 G B E
 (1) (2) (3) (4) (5) (6) (7) (8)

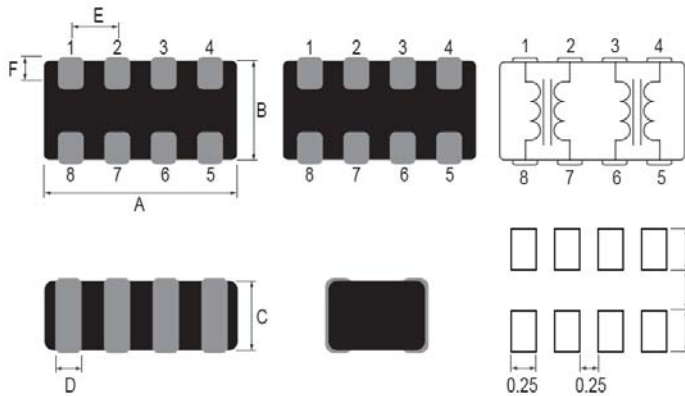
- (1) Series Type
- (2) Size (mm): Length x Width
- (3) Material Code: B—for High Speed Type
- (4) Impedance Value (Ω)/ $\pm 25\%$
- (5) Fixed Decimal Point } ex.: 90 Ω → 900; 120 Ω → 121
- (6) Rated current:

A=50mA	B=80mA	C=100mA	D=150mA	E=200mA	F=300mA
G=400mA	H=500mA	I=600mA	J=700mA	K=800mA	

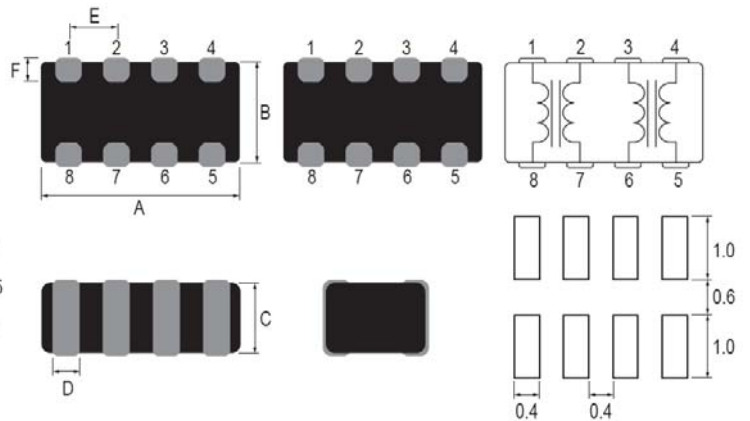
- (7) Soldering: Green Parts: B— Lead-Free for whole chip
- (8) Packaging: E – Embossed plastic tape, 7" reel

◆ Dimension

MCA 2012 series



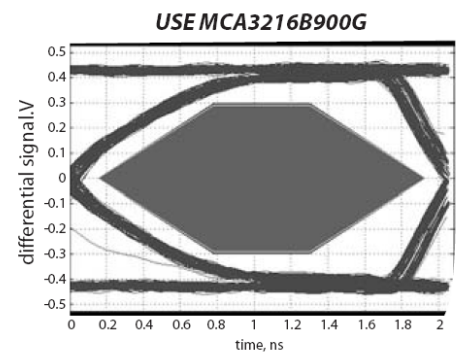
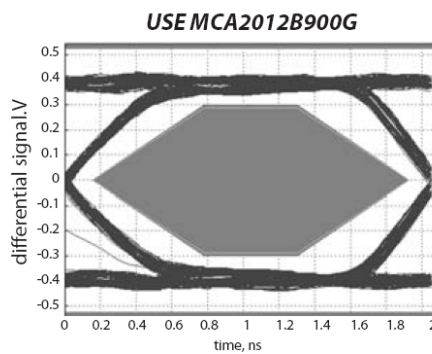
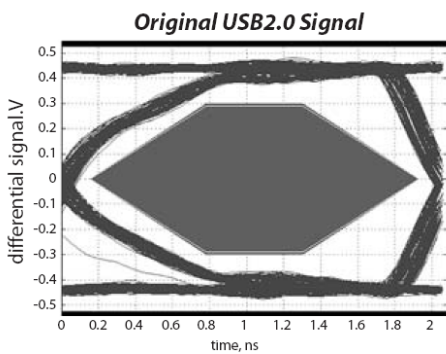
MCA 3216 series



Unit: mm

Size(EIA)	2012(0805)	3216 (1206)
A	2.00±0.20	3.20±0.20
B	1.25±0.20	1.60±0.20
C	1.00±0.10	1.00±0.10
D	0.25±0.20	0.45±0.15
E	0.50±0.20	0.80±0.10
F	0.25±0.20	0.30±0.20

◆ Signal Quality Test Result

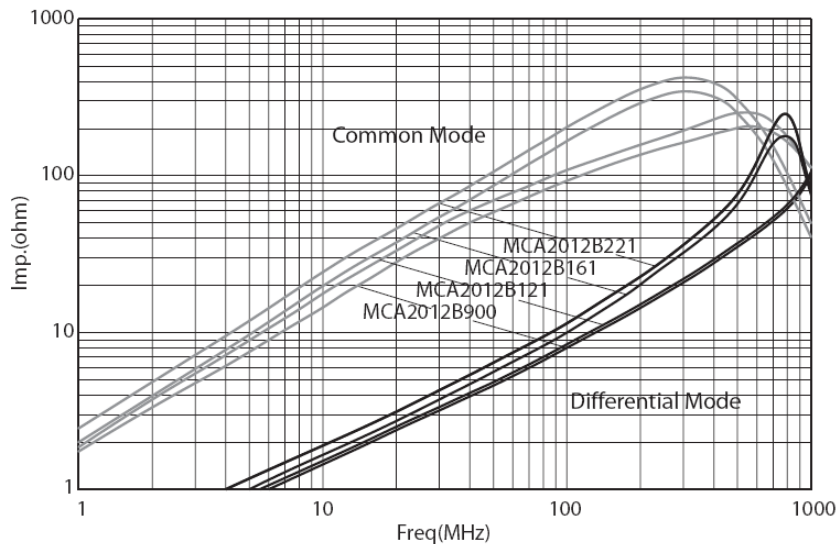


◆ Specification

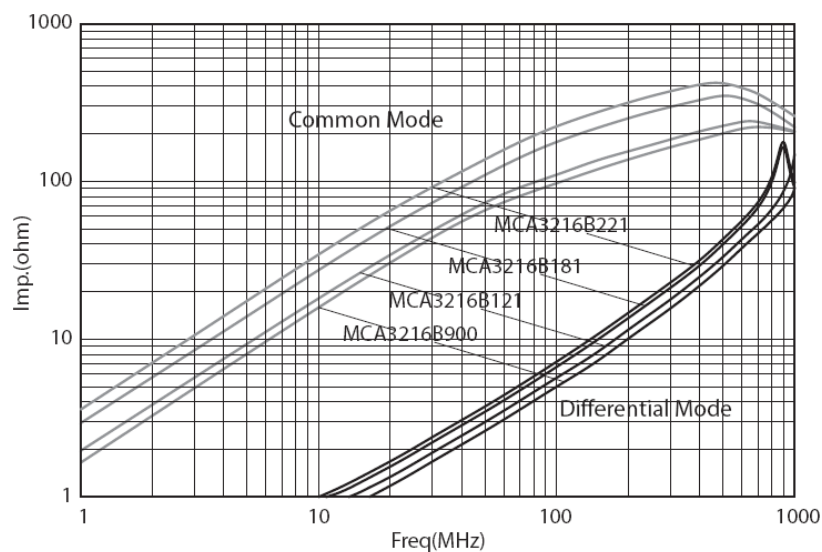
Part Number	Impedance at 100MHz(Ω)	DCR Max. (Ω)	Rated Current (mA)	Rated Voltage (V)	Withstand Voltage (V)
2012 (EIA 0805)					
MCA2012B900GBE	90	0.60	400	10	25
MCA2012B121FBE	120	0.60	300	10	25
MCA2012B161FBE	160	0.70	300	10	25
MCA2012B201EBE	200	0.70	200	10	25
3216 (EIA 1206)					
MCA3216B900GBE	90	0.40	400	10	25
MCA3216B121FBE	120	0.40	300	10	25
MCA3216B181FBE	180	0.50	300	10	25
MCA3216B221FBE	220	0.50	300	10	25

◆ Impedance vs. Frequency Characteristics

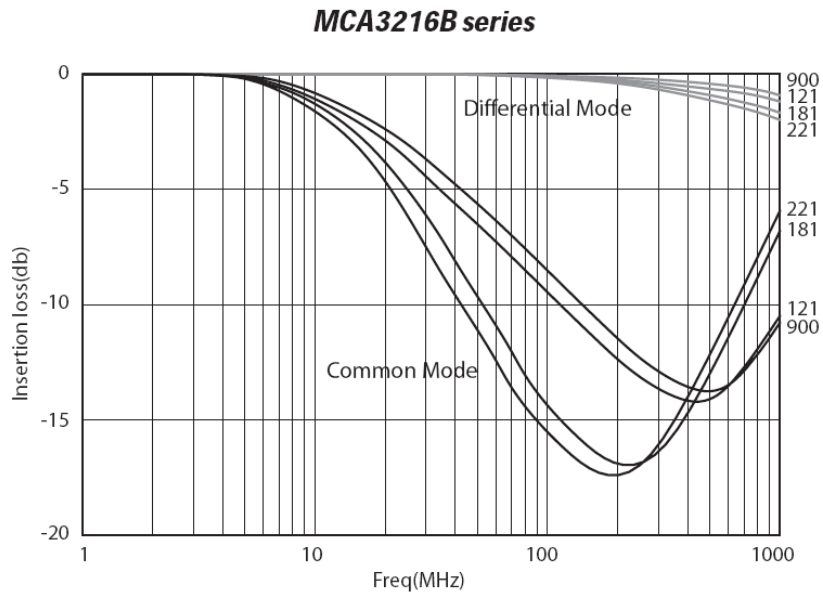
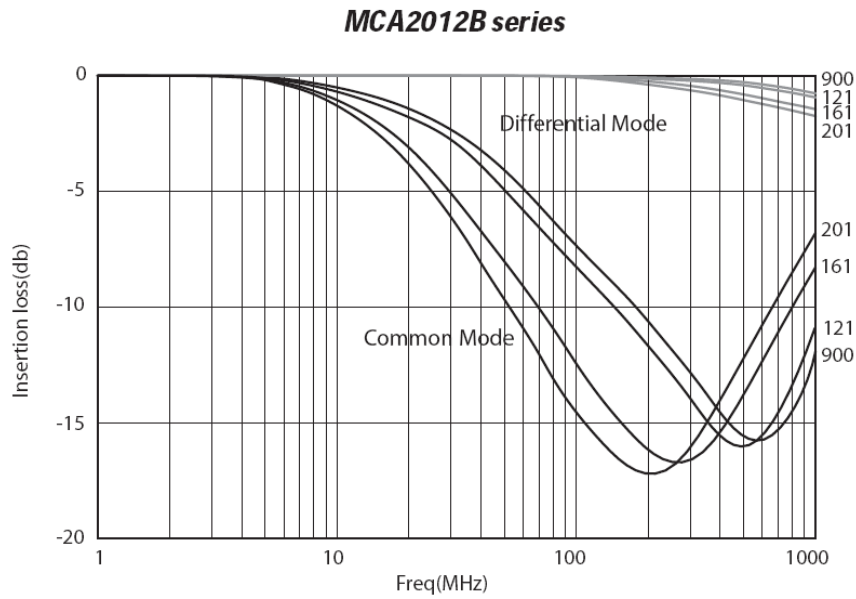
MCA2012B series



MCA3216B series



◆ Insertion Loss vs. Frequency Characteristics



◆ Package

Size (EIA)	2012(0805)	3216(1206)
Standard packing quantity (pcs/reel)	3,000	3,000