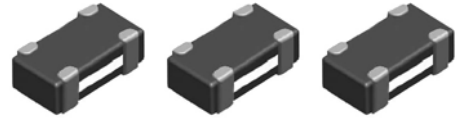


◆ Feature

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 67 to 220 ohm can be used, considering noise level and signal frequency
5. Small dimension enable higher density packaging

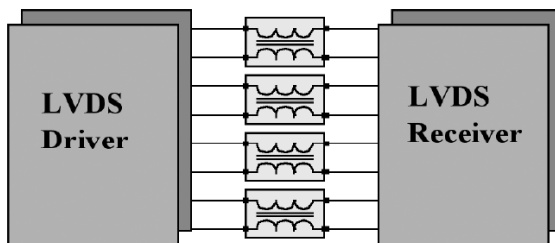
RoHS



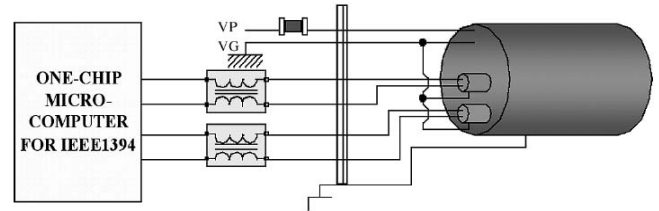
◆ Application

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

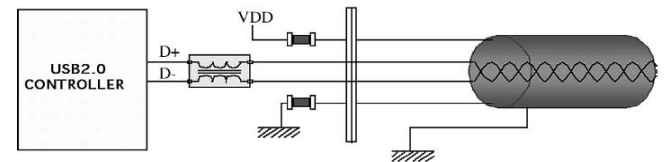
LVDS



IEEE 1394



USB 2.0



◆ How to Order

MCM 3216 B 90 0 H B =
 (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)/ $\pm 25\%$] 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

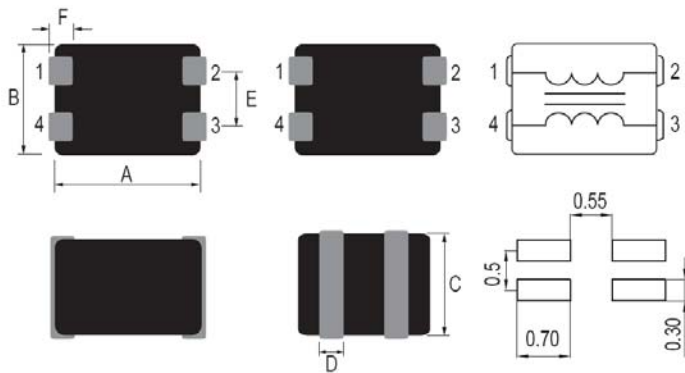
(7) Soldering: Green Parts: B— Lead-Free for whole chip

(8) Packaging: P – Embossed paper tape, 7" reel

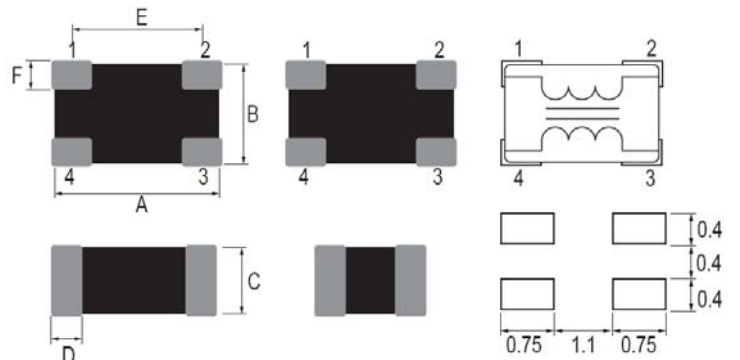
E – Embossed plastic tape, 7" reel

◆ Dimension

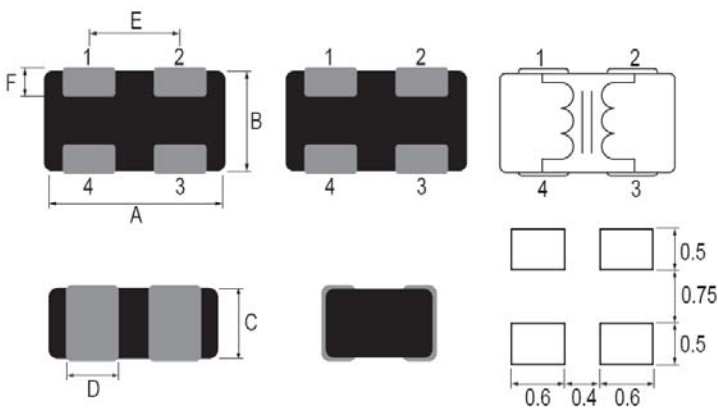
MCM 1012 series



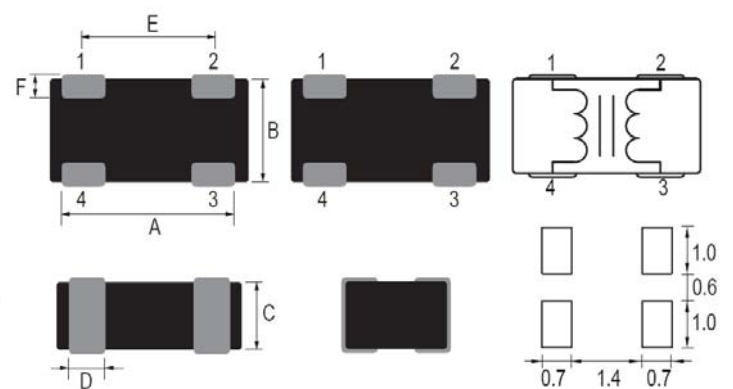
MCM 2012 series



MCM 1220 series



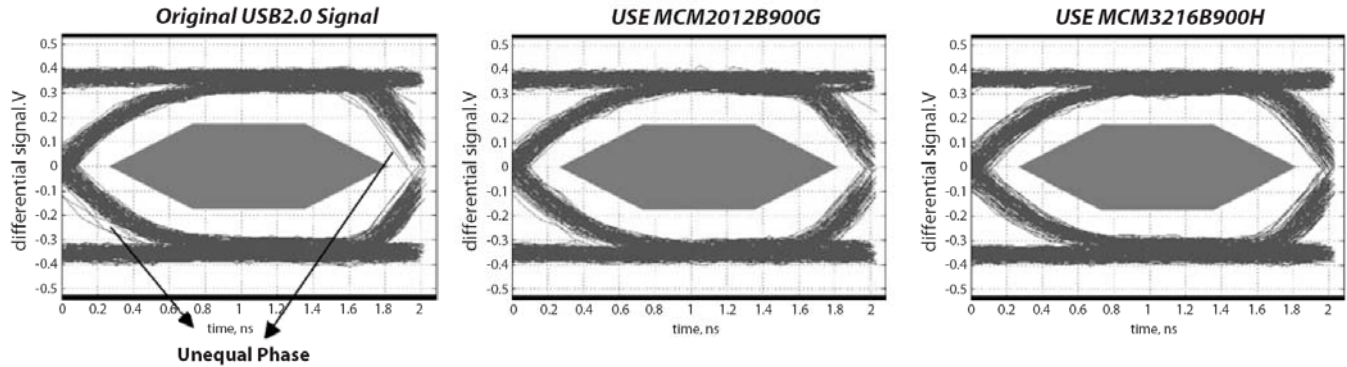
MCM 3216 series



Unit: mm

Size(EIA)	1012(0405)	2012 (0805)	1220 (0508)	3216 (1206)
A	1.25±0.10	2.00±0.20	2.00±0.20	3.20±0.20
B	1.00±0.10	1.25±0.20	1.25±0.20	1.60±0.20
C	0.82±0.10	1.00±0.10	1.00±0.10	1.00±0.10
D	0.30±0.10	0.40±0.20	0.60±0.20	0.70±0.20
E	0.50±0.10	1.60±0.20	1.00±0.20	2.10±0.20
F	0.20±0.15	0.30±0.20	0.25±0.20	0.30±0.20

◆ Signal Quality Test Result

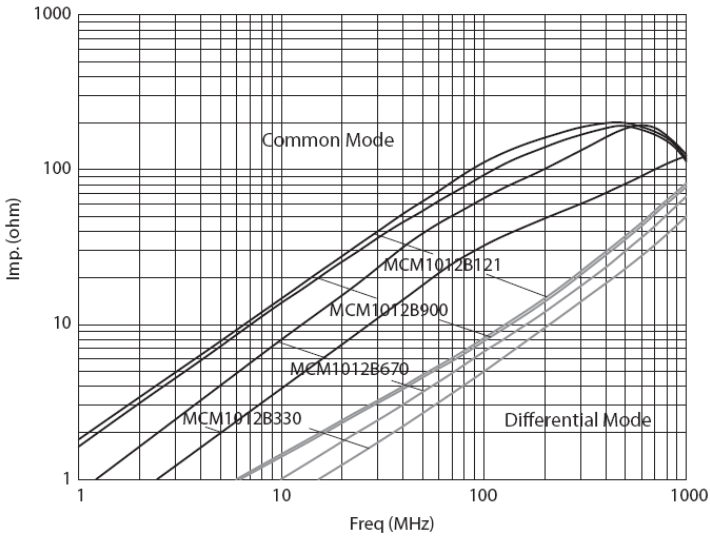


◆ Specification

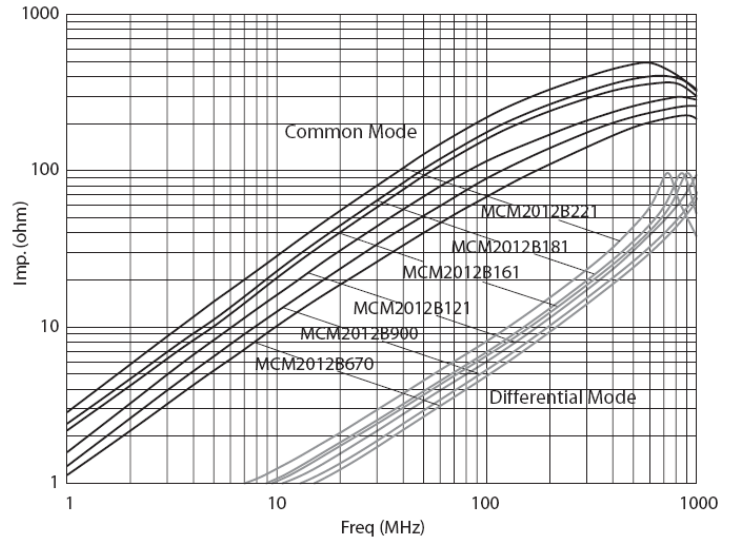
Part Number	Impedance at 100MHz(Ω)	DCR Max. (Ω)	Rated Current (mA)	Rated Voltage (V)	Withstand Voltage (V)
1012 (EIA 0405)					
MCM1012B330FBP	33	0.50	300	10	25
MCM1012B670FBP	67	0.50	300	10	25
MCM1012B900FBP	90	0.60	300	10	25
MCM1012B121FBP	120	0.60	300	10	25
2012 (EIA 0805)					
MCM2012B670GBE	67	0.40	400	10	25
MCM2012B900GBE	90	0.40	400	10	25
MCM2012B121GBE	120	0.40	400	10	25
MCM2012B161GBE	160	0.50	400	10	25
MCM2012B181GBE	180	0.50	400	10	25
MCM2012B221FBE	220	0.50	300	10	25
1220 (EIA 0508)					
MCM1220B900GBE	90	0.40	400	10	25
MCM1220B121GBE	120	0.40	400	10	25
MCM1220B181GBE	180	0.40	400	10	25
MCM1220B221FBE	220	0.40	300	10	25
3216 (EIA 1206)					
MCM3216B900HBE	90	0.50	500	10	25
MCM3216B121HBE	120	0.50	500	10	25
MCM3216B181GBE	180	0.60	400	10	25
MCM3216B221GBE	220	0.60	400	10	25

◆ Impedance vs. Frequency Characteristics

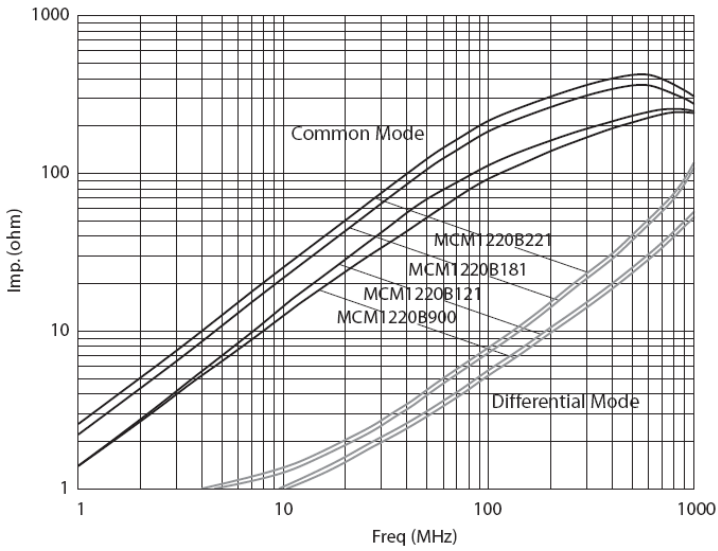
MCM1012B series



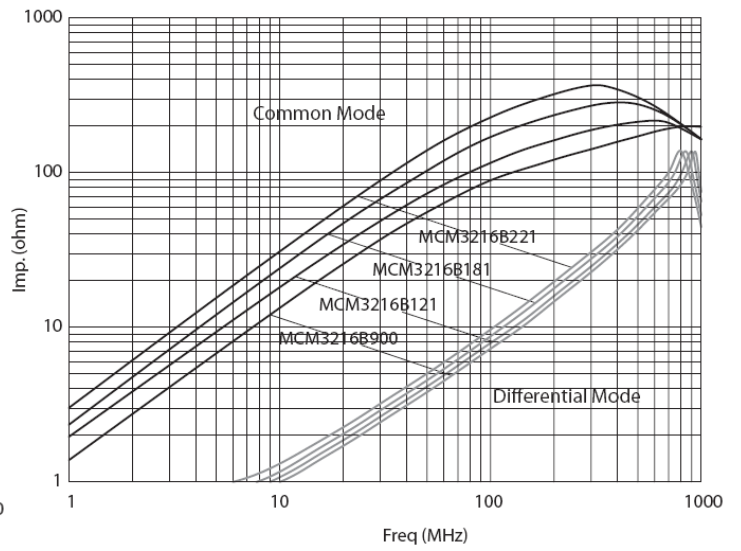
MCM2012B series



MCM1220B series

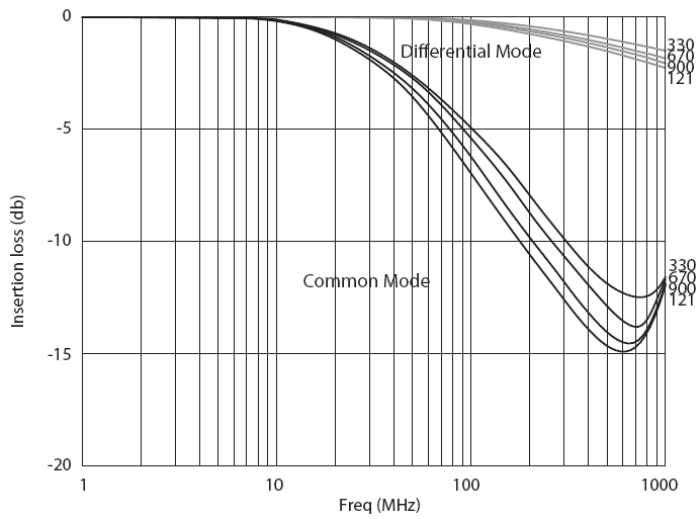


MCM3216B series

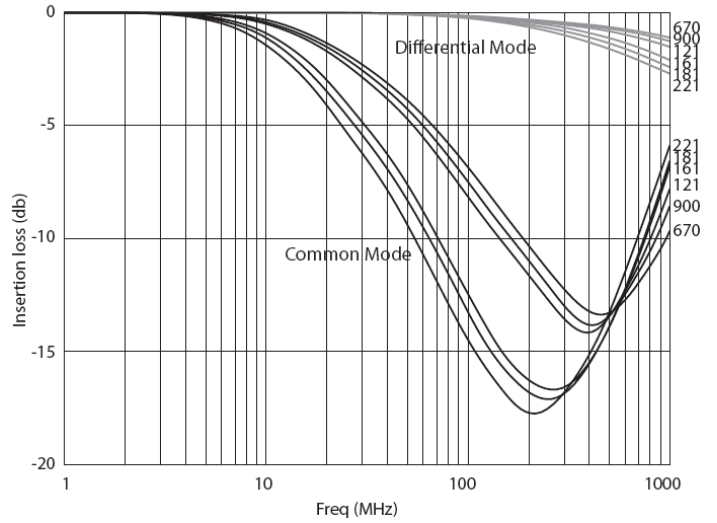


◆ Insertion Loss vs. Frequency Characteristics

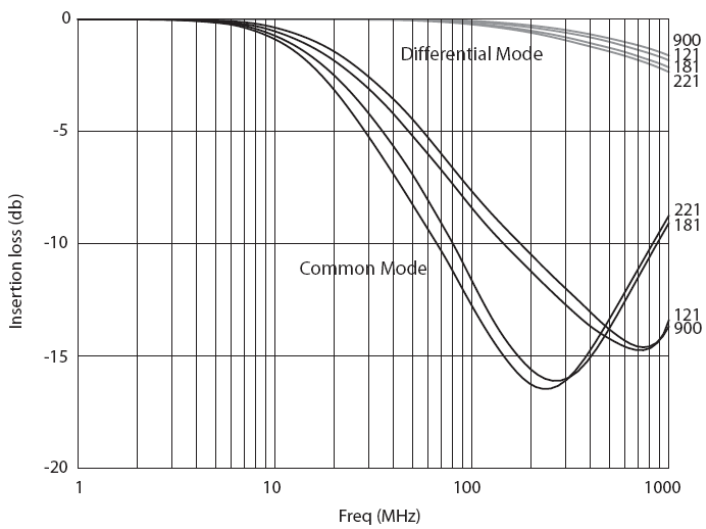
MCM1012B series



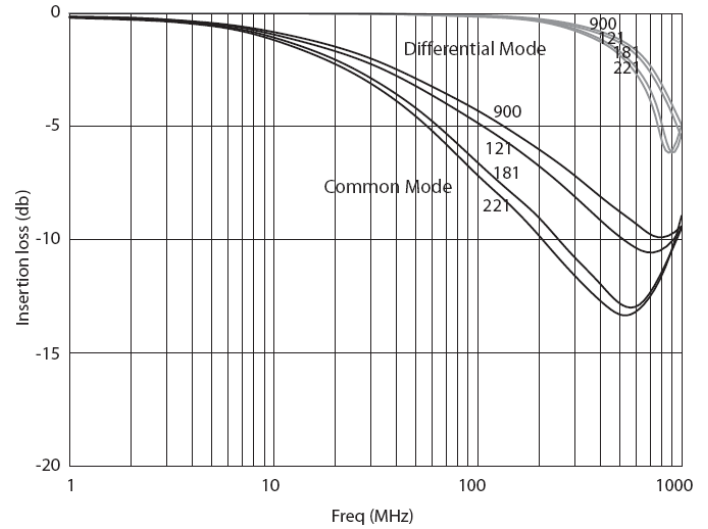
MCM2012B series



MCM1220B series



MCM3216B series



◆ Package

Size (EIA)	1012(0405)	2012(0805) 1220(0508)	3216(1206)
Standard Packing Quantity (pcs / reel)	4,000	3,000	3,000