

Wire Wound Common Mode Filter

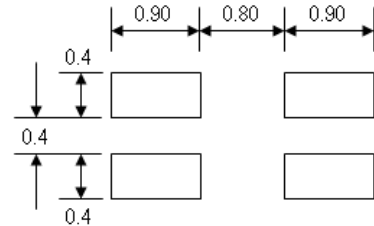
Description

The MFD Series is a Wire wound miniature common mode filter specifically designed to eliminate common mode noise in USB 2.0, IEEE1394, and LVDS applications.

A dual winding configuration in a tight form factor provides exceptional EMI reduction in space-constrained environments.

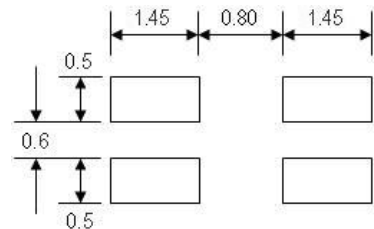
MFD2012 Directions

- ◎Miniature footprint : 2.0×1.2mm
- ◎Low profile : 1.4mm (max)
- ◎Common mode impedance of 67~370Ω at 100MHz (typical)
- ◎Operating temperature : -30°C to +85°C
- ◎Suitable for reflow soldering.

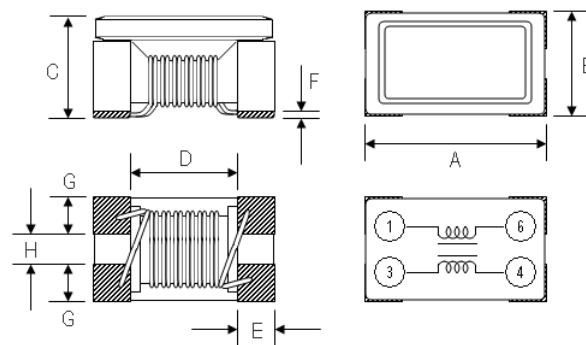


MFD3216 Directions

- ◎Miniature footprint : 3.2×1.6mm
- ◎Low profile : 2.1mm (max)
- ◎Common mode impedance of 90~2200Ω at 100MHz (typical)
- ◎Operating temperature : -30°C to +85°C
- ◎Suitable for reflow soldering.



Dimensions and footprint (Unit : mm)



Unit : mm

Size	A	B	C	D	E	F	G	H
MFD-1608	1.60±0.2	0.8±0.2	1.10±0.2	0.90±0.2	0.33	0.10±0.1	0.25	0.50
MFD-2012	2.00±0.2	1.20±0.2	1.20±0.2	1.10±0.2	0.45	0.17	0.40	0.45
MFD-3216	3.20±0.2	1.6 ±0.2	1.90±0.2	2.00±0.2	0.60	0.17	0.60	0.40

Part Number Code

MFD - 2012 A - 90 0
 1 2 3 4 5

1、Series Name

2、Size Code : the first two digitals : length(mm), the last two digitals : width(mm)

3、Shielding Type (A:For 1GHz、B:For 3.5GHz、C:HDMI1.4 Cat2/6g、D:For USB3.0/7.5G)

4、Impedance(Ω) $\pm 25\%$ { (ex : 600=60 Ω ; 601=600 Ω)

5、Fixed Decimal Point

Specification

Part No.	Impedance (Ω) 100MHz	IDC(mA) (max)	DCR(Ω) (max)	Withstand Voltage(Vdc)	Rated Voltage Vdc(V)max
MFD-1608A-670	67	300	0.30	125	50
MFD-1608A-900	90	300	0.30	125	50
MFD-1608A-121	120	250	0.36	125	50
MFD-1608A-161	160	200	0.40	125	50
MFD-1608A-221	220	200	0.42	125	50

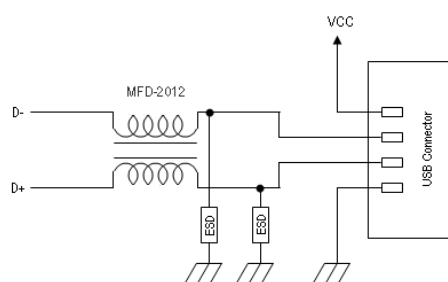
Part No.	Impedance (Ω) 100MHz	IDC(mA) (max)	DCR(Ω) (max)	Withstand Voltage(Vdc)	Rated Voltage Vdc(V)max
MFD-2012-670	67	400	0.25	125	50
MFD-2012-900	90	330	0.35	125	50
MFD-2012-121	120	370	0.30	125	50
MFD-2012-181	180	330	0.35	125	50
MFD-2012-261	260	220	0.40	125	50
MFD-2012-371	370	100	0.50	125	50
MFD-2012A-670	67	400	0.25	125	50
MFD-2012A-900	90	400	0.30	125	50
MFD-2012A-121	120	350	0.30	125	50
MFD-2012A-161	160	350	0.30	125	50
MFD-2012A-181	180	330	0.35	125	50
MFD-2012A-221	220	330	0.35	125	50
MFD-2012A-261	260	300	0.40	125	50
MFD-2012A-361	360	280	0.40	125	50
MFD-2012B-900	90	300	0.30	100typ	20
MFD-2012C-240	24	300	0.20	100typ	20
MFD-2012C-300	30	300	0.20	100typ	20

Part No.	Impedance (Ω) 100MHz	IDC(mA) (max)	DCR(Ω) (max)	Withstand Voltage(Vdc)	Rated Voltage Vdc(V)max
MFD-2012C-600	60	300	0.30	100typ	20
MFD-2012C-900	90	300	0.30	100typ	20
MFD-2012D-120	12	420	0.25	100typ	20
MFD-2012D-240	24	420	0.25	100typ	20
MFD-2012D-250	25	420	0.22	100typ	20
MFD-2012D-320	32	400	0.25	100typ	20
MFD-2012D-600	60	300	0.30	100typ	20
MFD-2012D-900	90	300	0.30	100typ	20

Part No.	Impedance (Ω) 100MHz	IDC(mA) (max)	DCR(Ω) (max)	Withstand Voltage(Vdc)	Rated Voltage Vdc(V)max
MFD-3216-900	90	370	0.30	125	50
MFD-3216-161	160	340	0.40	125	50
MFD-3216-261	260	310	0.50	125	50
MFD-3216-601	600	260	0.80	125	50
MFD-3216-102	1000	230	1.00	125	50
MFD-3216-222	2200	200	1.20	125	50

Applications examples

USB2.0



IEEE1394 Port

