

DC common mode choke coil WCNFC201214/DS



Features

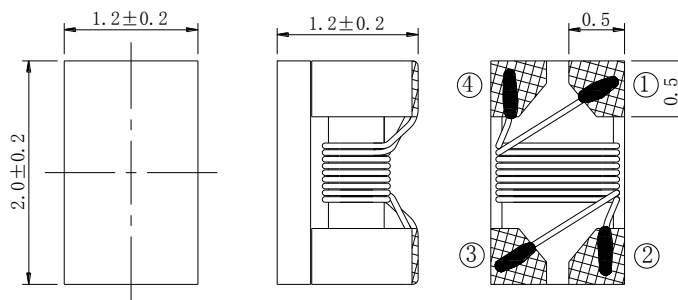
- Special very low profile and small size SMD design.
- Wound Chip constructure with standard 0805 to 1812 size.
- Best EMI suppression effect but least impact to data signal wave form.
- Very high Self-resonance frequency enables high cut-off frequency.
- Excellent Solderability.
- L x W x H: 2.2x1.4x1.4mm Max.
- Moisture sensitivity level: MSL.1.
- RoHs & Halogen free compliance
- Operation temperature range: -40°C ~ 125 °C(Including coil's self heat)
- Storage temperature range: -40°C ~ 125 °C



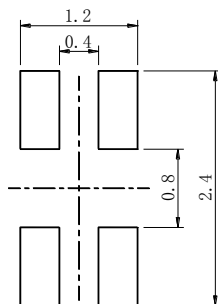
Applications

- For common mode noise suppression in high-speed differential signal lines: USB 2.0, IEEE1394, LVDS, etc..
- High Speed differential signal lines for HDMI, DVI, etc..
- Audio lines.
- For USB 3.x application.
- Best for NB, DSC, mobile device design.
- Multimedia system and Ethernet(100BASE-T1).
- Common mode noise filter for power line.
- For LAN module application.

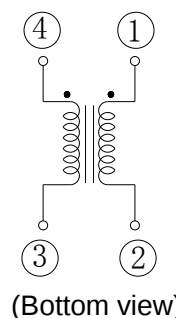
Dimensions (mm)



Land patterns (mm)



Terminal Connection



(Bottom view)

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Electrical specifications

Part No.	Common mode Impedance (Ω) Within 1-2 (3-4)	D.C.R (m Ω) Max.(Typ.) (1-2)OR (3-4)	Insulation resistance (M Ω) Min. (1-2)-(3-4)	Rated Voltage (Vdc) Max.	Temperature rise current (mA) ※1 Max. (1-2) OR (3-4)
	100MHz,0.5V	at 25°C	DC100V,60S		
WCNFC201214DS-300	30 $\pm$ 25%	79(63)	10	50	880
WCNFC201214DS-500	50 $\pm$ 25%	113(90)	10	50	790
WCNFC201214DS-750	75 $\pm$ 25%	116(93)	10	50	760
WCNFC201214DS-900	90 $\pm$ 25%	150(120)	10	50	700
WCNFC201214DS-101	100 $\pm$ 25%	158(126)	10	50	700
WCNFC201214DS-121	120 $\pm$ 25%	191(153)	10	50	630
WCNFC201214DS-161	160 $\pm$ 25%	183(146)	10	50	630
WCNFC201214DS-181	180 $\pm$ 25%	189(151)	10	50	630
WCNFC201214DS-201	200 $\pm$ 25%	188(150)	10	50	630
WCNFC201214DS-221	220 $\pm$ 25%	186(149)	10	50	630
WCNFC201214DS-251	250 $\pm$ 25%	354(283)	10	50	480
WCNFC201214DS-261	260 $\pm$ 25%	363(290)	10	50	480
WCNFC201214DS-301	300 $\pm$ 25%	354(283)	10	50	480
WCNFC201214DS-361	360 $\pm$ 25%	414(331)	10	50	420
WCNFC201214DS-371	370 $\pm$ 25%	413(330)	10	50	420
WCNFC201214DS-481	480 $\pm$ 25%	471(377)	10	50	410
WCNFC201214DS-501	500 $\pm$ 25%	471(377)	10	50	410
WCNFC201214DS-601	600 $\pm$ 25%	473(378)	10	50	410
WCNFC201214DS-671	670 $\pm$ 25%	474(379)	10	50	410
WCNFC201214DS-681	680 $\pm$ 25%	476(381)	10	50	410
WCNFC201214DS-751	750 $\pm$ 25%	728(582)	10	50	320
WCNFC201214DS-801	800 $\pm$ 25%	721(577)	10	50	320
WCNFC201214DS-901	900 $\pm$ 25%	808(646)	10	50	300
WCNFC201214DS-102	1000 $\pm$ 25%	729(583)	10	50	320

※1 Temperature rise current: The actual value of DC current when temperature of coil rise is $\Delta T=40^{\circ}\text{C}$
($T_a=25^{\circ}\text{C}$)(Test board condition:FR4,Copper=70 μ m,four-layer PWB t=1.6mm)

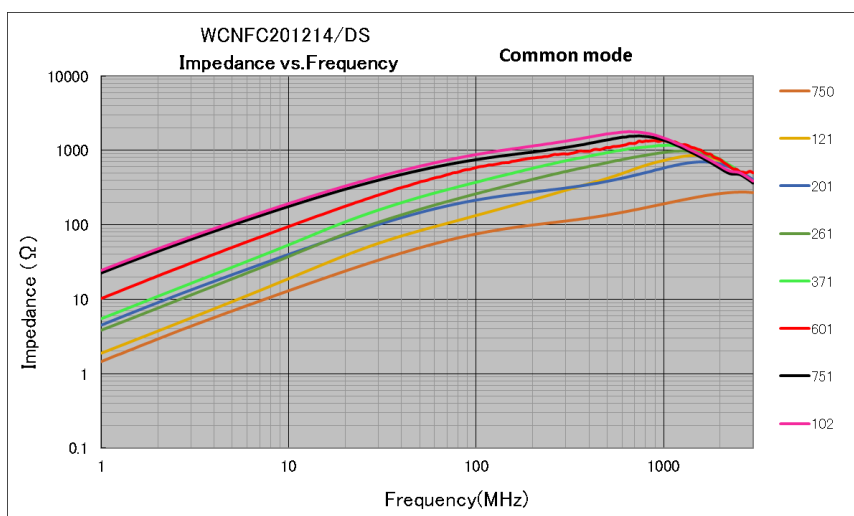
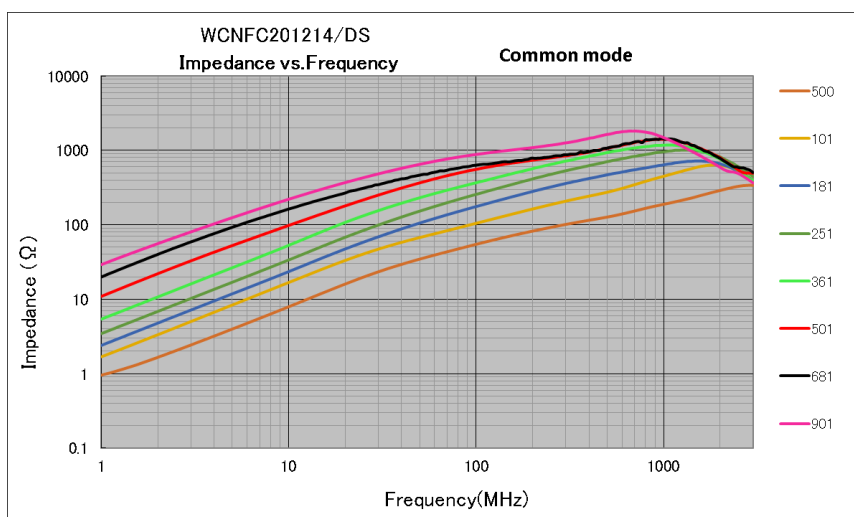
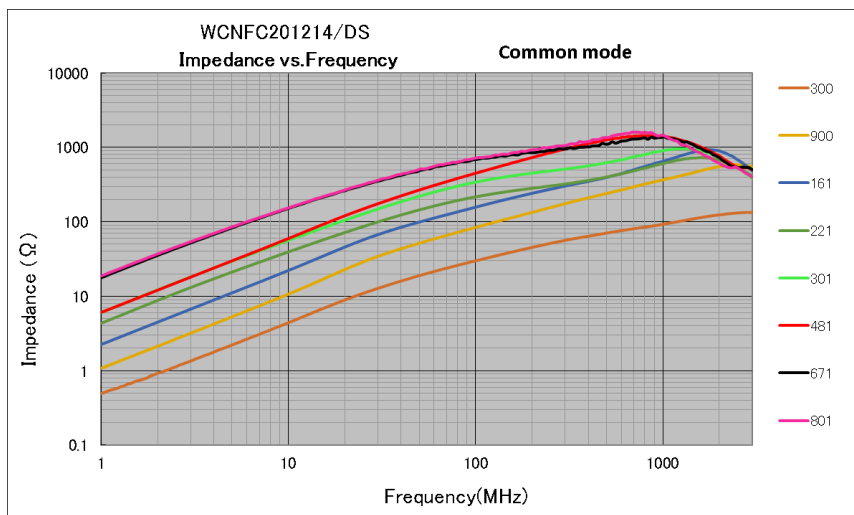
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Common mode Impedance Characteristics

Impedance vs. frequency Common mode

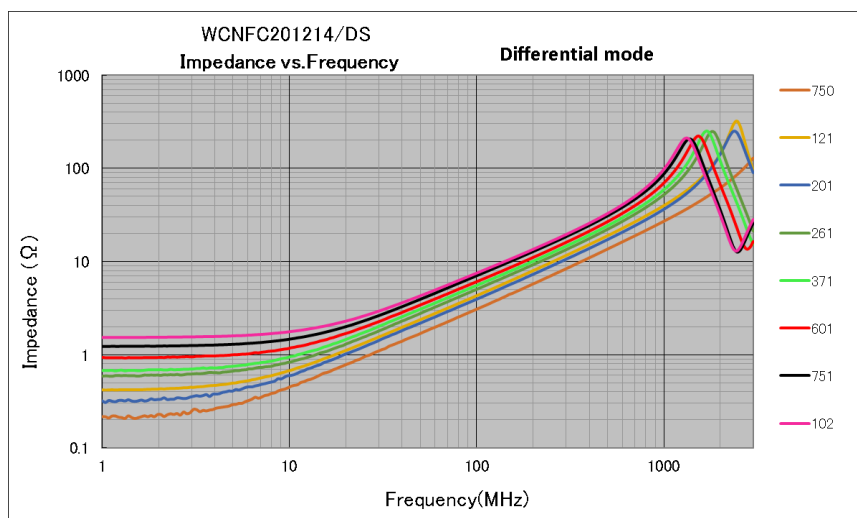
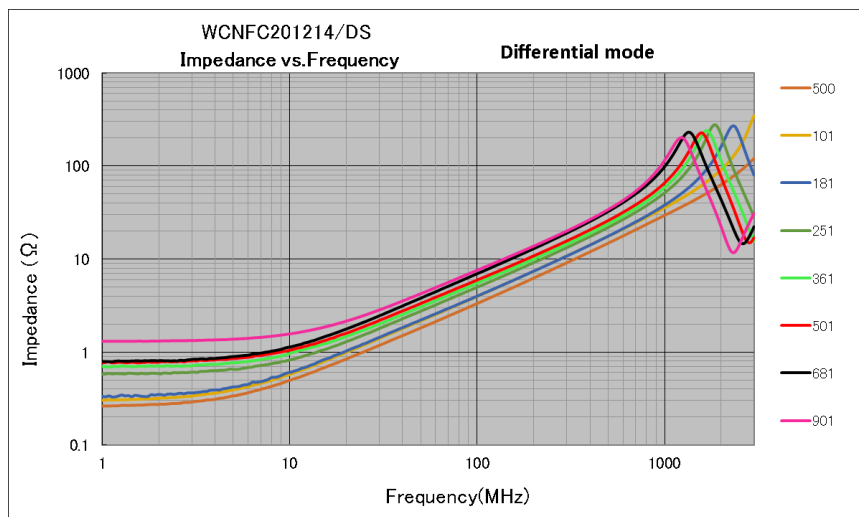
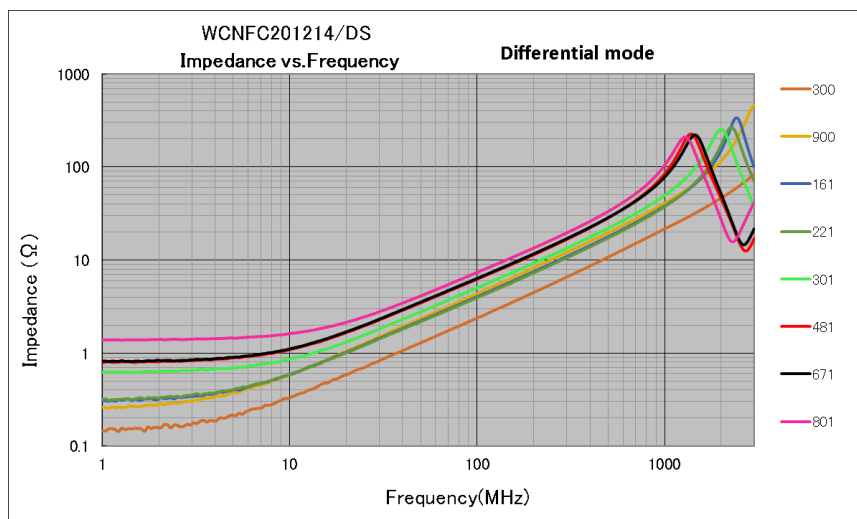


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Impedance vs. frequency Differential mode



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