

DC common mode choke coil

WCNFC453230/DS



Features

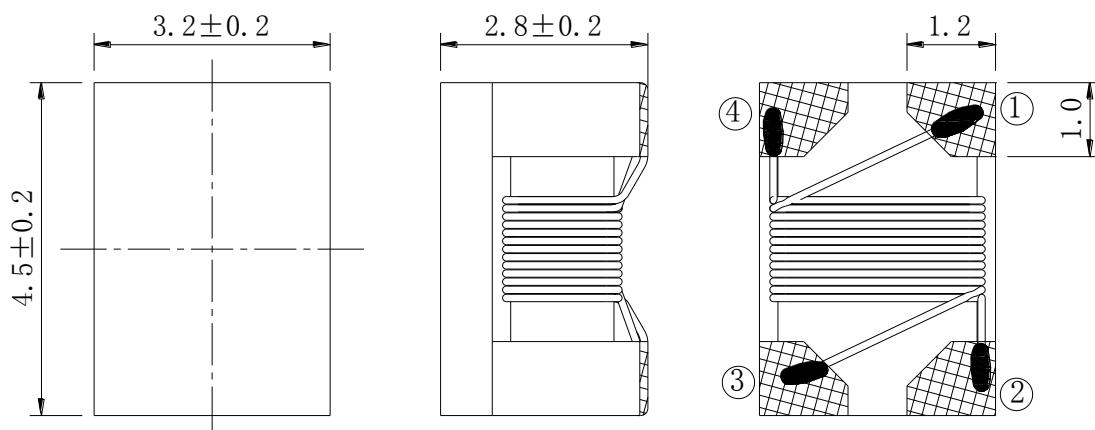
- Special very low profile and small size SMD design.
- Wound Chip constructure with standard 0805 to 1812 size.
- Best EMI suppression effect but least impact to data signal wave form.
- Very high Self-resonance frequency enables high cut-off frequency.
- Excellent Solderability.
- L x W x H: 4.7x3.4x3.0mm 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)



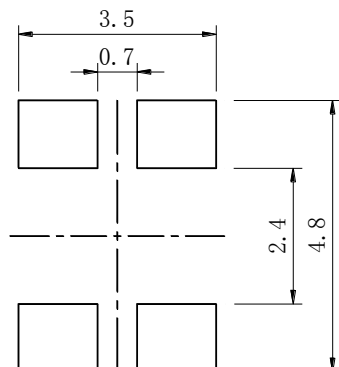
Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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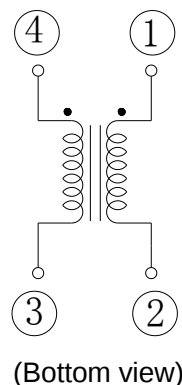
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Land patterns (mm)



Terminal Connection



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		
WCNFC453230DS-800	80 $\pm$ 25%	20(16)	10	50	2700
WCNFC453230DS-900	90 $\pm$ 25%	20(16)	10	50	2700
WCNFC453230DS-121	120 $\pm$ 25%	29(23)	10	50	2300
WCNFC453230DS-201	200 $\pm$ 25%	29(23)	10	50	2300
WCNFC453230DS-231	230 $\pm$ 25%	38(30)	10	50	2100
WCNFC453230DS-361	360 $\pm$ 25%	38(30)	10	50	2100
WCNFC453230DS-421	420 $\pm$ 25%	47(37)	10	50	1900
WCNFC453230DS-501	500 $\pm$ 25%	47(37)	10	50	1900
WCNFC453230DS-601	600 $\pm$ 25%	47(37)	10	50	1900
WCNFC453230DS-701	700 $\pm$ 25%	57(45)	10	50	1700
WCNFC453230DS-801	800 $\pm$ 25%	57(45)	10	50	1700
WCNFC453230DS-901	900 $\pm$ 25%	65(52)	10	50	1600
WCNFC453230DS-122	1200 $\pm$ 25%	65(52)	10	50	1600
WCNFC453230DS-142	1400 $\pm$ 25%	84(67)	10	50	1400

※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)

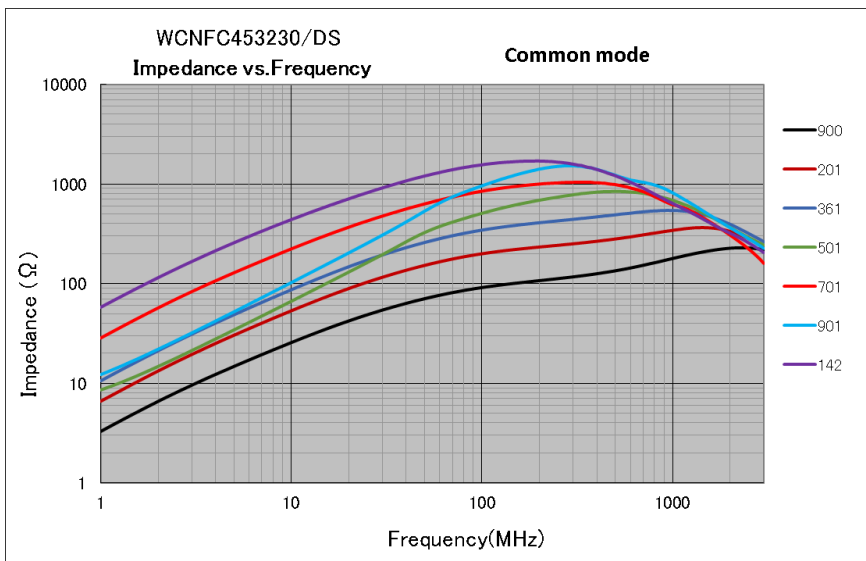
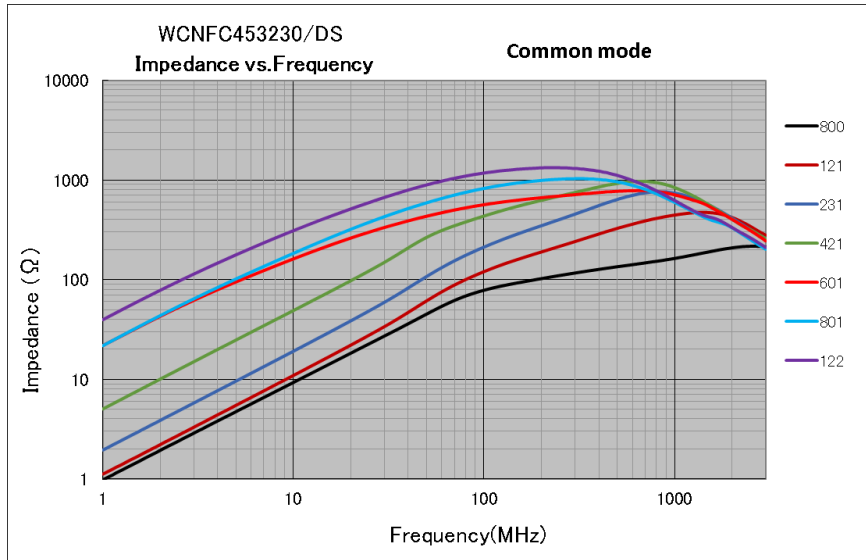
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Common mode Impedance Characteristics

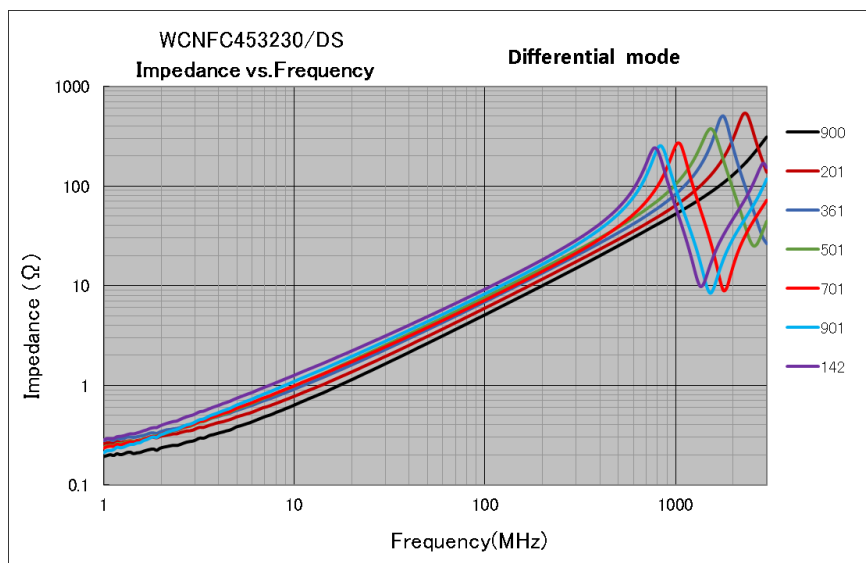
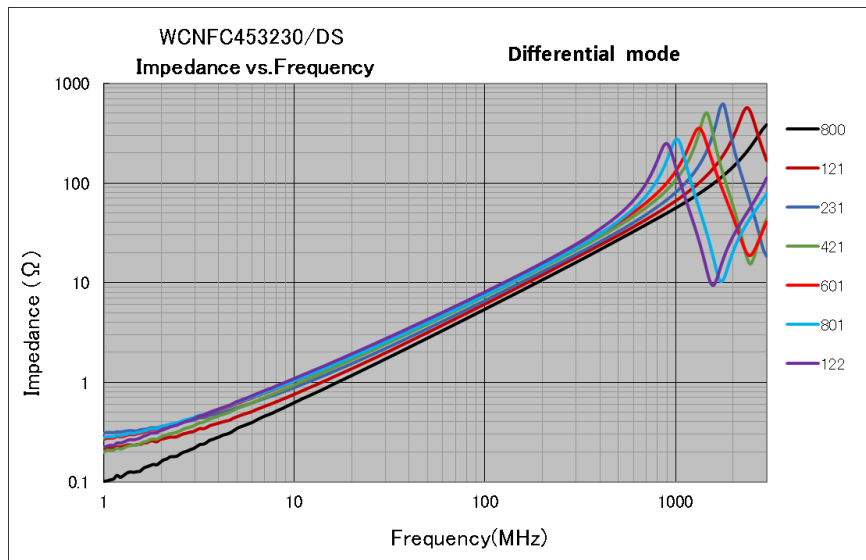
Impedance vs. frequency Common mode



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Impedance vs. frequency Differential mode



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