

DC common mode choke coil

WCNFC453230L/DS



Features

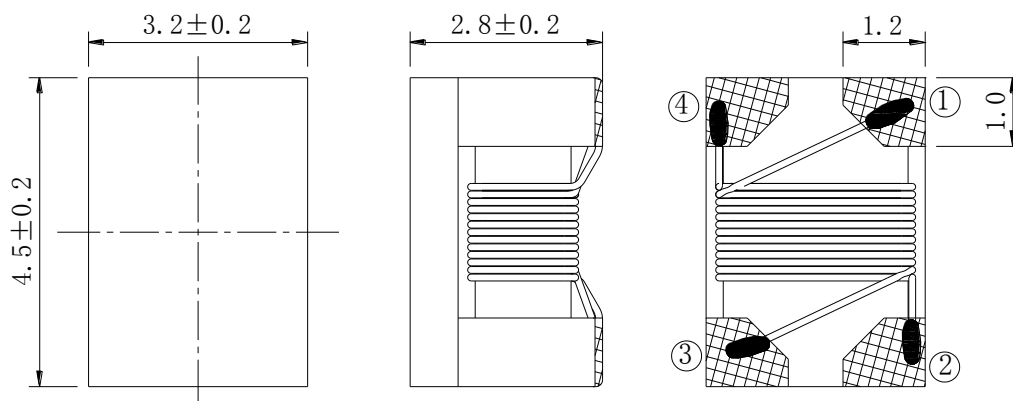
- Special very low profile and small size SMD design.
- Wound Chip constructure with standard 0805 to 1812 size.
- Best EMI suppression effect but least impact to data signal wave form.
- Very high Self-resonance frequency enables high cut-off frequency.
- Excellent Solderability.
- L x W x H: 4.7x3.4x3.0mm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



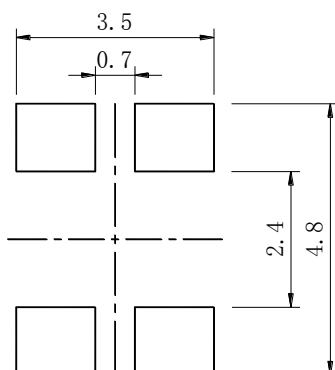
Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

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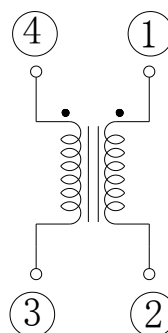
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Land patterns (mm)



Terminal Connection



(Bottom view)

Electrical specifications

Part No.	Inductance (μ H) [Within] 1-2 (3-4)	Common mode Impedance (Ω) Min.(Typ.) 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)
	100kHz,0.1V	10MHz,0.1V	at 25°C	DC100V,60S		
WCNFC453230LDS-110	11+50%/-30%	300(600)	272(218)	10	50	690
WCNFC453230LDS-220	22+50%/-30%	500(1200)	400(320)	10	50	550
WCNFC453230LDS-510	51+50%/-30%	1000(2800)	752(602)	10	50	420
WCNFC453230LDS-101	100+50%/-30%	2000(5800)	1312(1050)	10	50	270
WCNFC453230LDS-201	200+50%/-30%	8000(13000)	4566(3653)	10	50	160

※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)

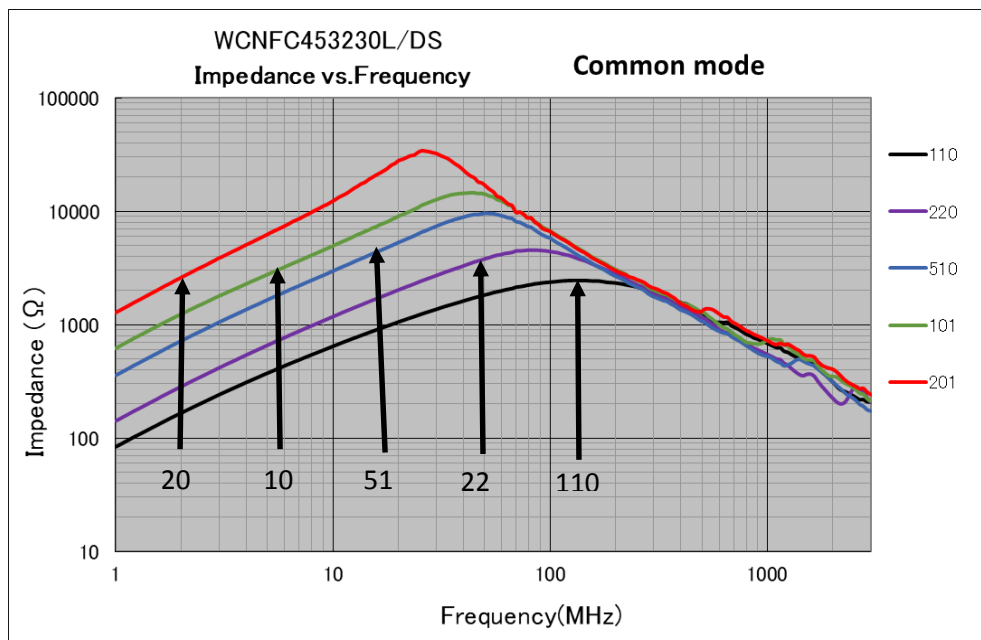
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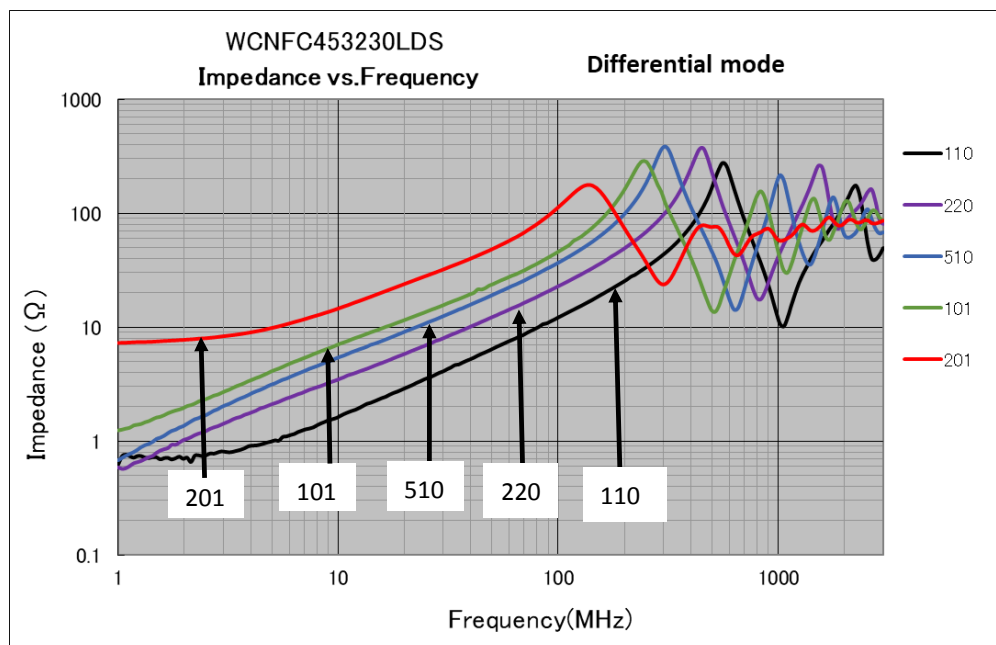


Common mode Impedance Characteristics

Impedance vs. frequency Common mode



Impedance vs. frequency Differential mode



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