

DC common mode choke coil

WCNFC322524L/DS



Features

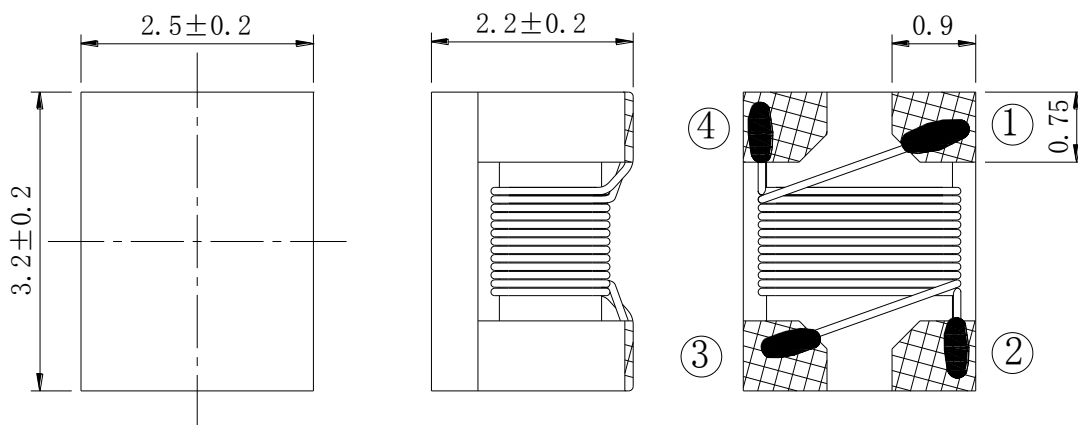
- Special very low profile and small size SMD design.
- Wound Chip constructure with standard 0805 to 1812 size.
- Best EMI suppression effect but least impact to data signal wave form.
- Very high Self-resonance frequency enables high cut-off frequency.
- Excellent Solderability.
- L x W x H: 3.4x2.7x2.4mm 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)

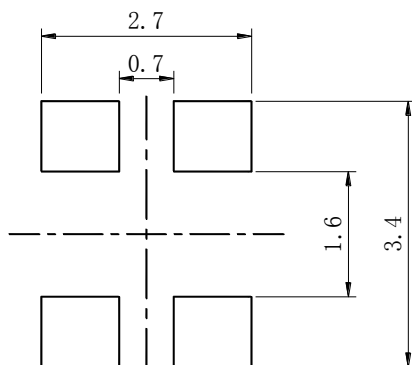


Note : This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.

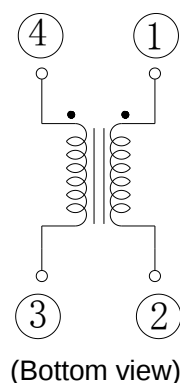
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Land patterns (mm)



Terminal Connection



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,0.5V	at 25°C	DC100V,60S		
WCNFC322524LDS-110	11+50%/-30%	300(550)	305(244)	10	50	640
WCNFC322524LDS-220	22+50%/-30%	500(1100)	460(368)	10	50	520
WCNFC322524LDS-510	51+50%/-30%	1000(2600)	728(633)	10	50	370
WCNFC322524LDS-101	100+50%/-30%	2200(5100)	1503(1307)	10	50	270
WCNFC322524LDS-201	200+50%/-30%	5000(10000)	6042(5254)	10	50	120

※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)

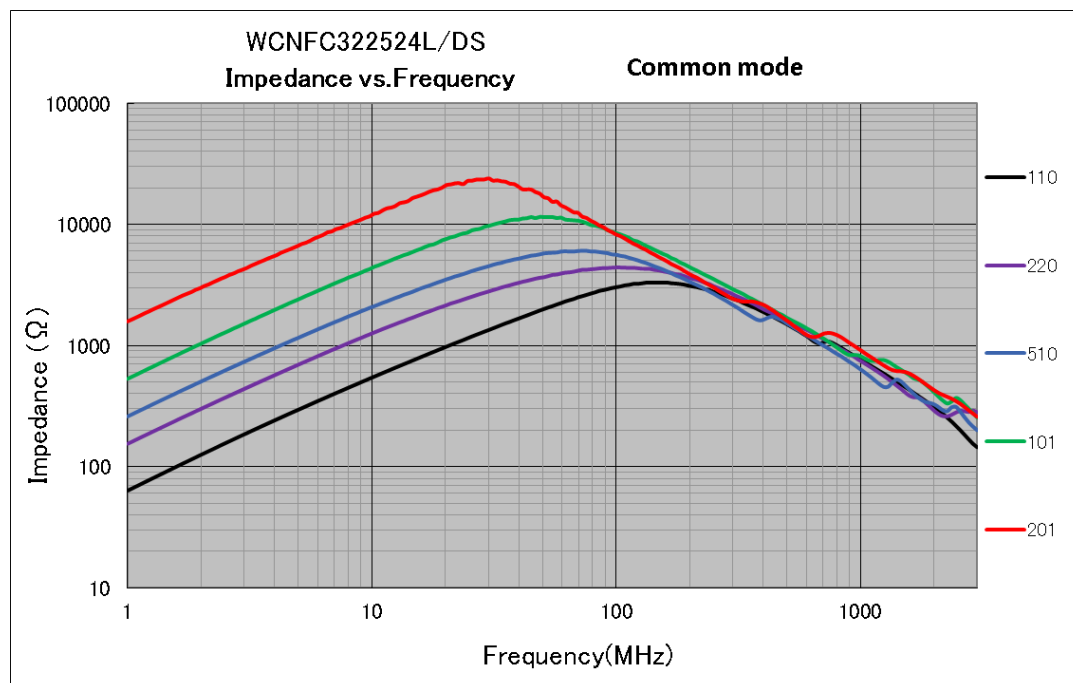
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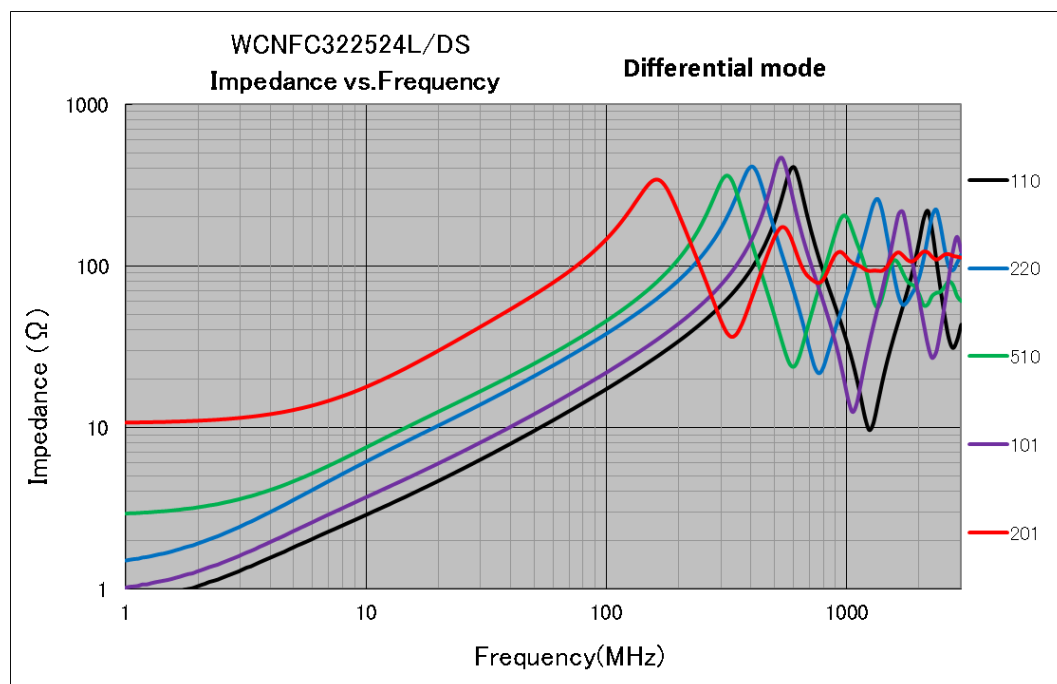


Common mode Impedance Characteristics

Impedance vs. frequency Common mode



Impedance vs. frequency Differential mode



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