DC common mode choke coil WCNFC160812/DS

Sumida



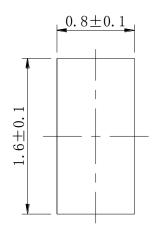
Features

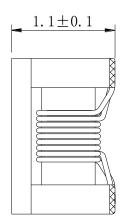
- Special very low profile and small size SMD design.
- Wound Chip constructure with standard 0805 to 1812 size.
- Best EMI suppression effect but least impact to data signal wave form.
- · Very high Self-resonance frequency enables high cut-off frequency.
- · Excellent Solderability.
- L x W x H: 1.7x0.9x1.2mm 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

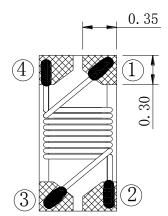
Applications

- 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)









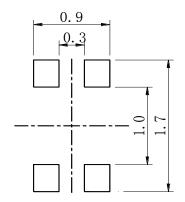
Note: This specification is subject to change without notice. Please contact your nearest sales office for updated information when placing an order.



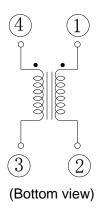




Land patterns (mm)



Terminal Connection



Electrical specifications

Part No.	Common mode Impedance (Ω) Within 1-2 (3-4) 100MHz,0.5V	D.C.R (mΩ) Max. (Typ.) (1-2)OR (3-4) at 25°C	Insulation resistance (MΩ) Min. (1-2)-(3-4)	Rated Voltage (Vdc) Max.	Temperature rise current (mA) ※1 Max. (1-2) OR (3-4)
WCNFC160812DS-250	25±25%	64(51)	10	20	960
WCNFC160812DS-600	60±25%	116(93)	10	20	730
WCNFC160812DS-900	90±25%	230(184)	10	20	510
WCNFC160812DS-141	140±25%	214(171)	10	20	520
WCNFC160812DS-221	220±25%	260(208)	10	20	460

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

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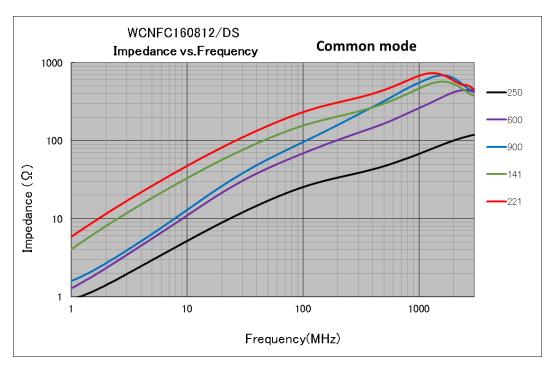


DC common mode choke coil WCNFC160812/DS

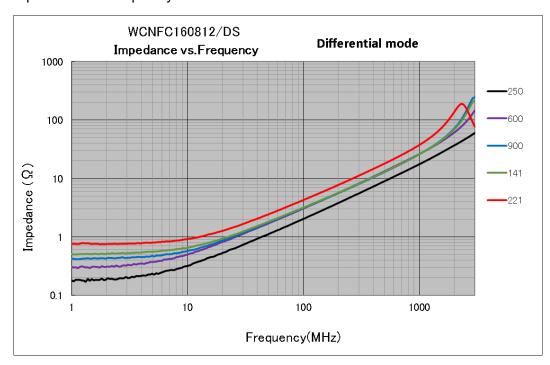
RoHS Compilance Cd: Max. 0.01wt% Others: Max. 0.1wt%

Common mode Impedance Characteristics

Impedance vs. frequency Common mode



Impedance vs. frequency Differential mode





For sales office information, please <u>click here</u> to visit our website.

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