

DLP31S Series

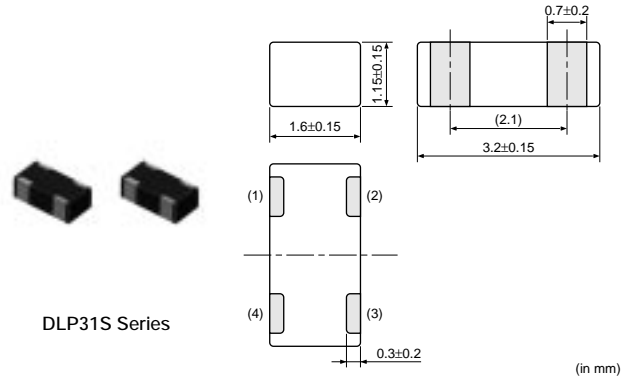
DLP31S series is chip common mode choke coil that realizes high impedance in a small size with ferrite material technology and film processing technology. DLP31S series has excellent performance at high frequency range. It is suitable for differential signal line application.

■ Features

1. Small size, low profile, SMD. 3.2x1.6x1.15mm (Tolerance: ± 0.15 mm)
2. High common mode impedance (550 ohm at 100MHz typ.) in small size
3. DLP31S suppresses high frequency noise that was unable to be suppressed with existing common mode choke coils. Suitable for differential signal lines like USB, because DLP31S does not provide distortion to high speed signal transmission due to its high coupling (coupling coefficient: 0.98 min.)

■ Applications

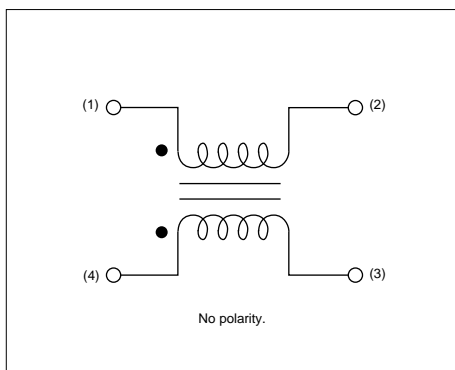
1. USB lines of PCs, peripheral equipment
2. LVDS lines of Note-PCs, LCDs
3. USB lines of digital AV equipment such as digital cameras



Part Number	Common Mode Impedance (at 100MHz/20 degree C) (ohm)	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (min.) (M ohm)	Withstand Voltage (Vdc)	DC Resistance (ohm)
DLP31SN121ML2	120 $\pm 20\%$	100	16	100	40	2.0 max.
DLP31SN221ML2	220 $\pm 20\%$	100	16	100	40	2.5 max.
DLP31SN551ML2	550 $\pm 20\%$	100	16	100	40	3.6 max.

Operating Temperature Range: -40°C to 85°C

■ Equivalent Circuit



■ Impedance - Frequency

