

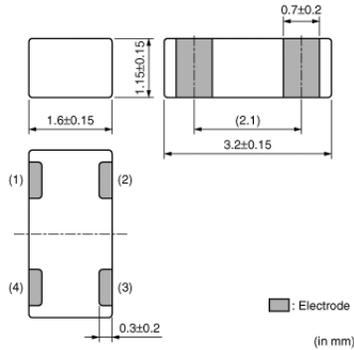
# DLP31SN121ML2#

“#” indicates a package specification code.



< List of part numbers with package codes >  
DLP31SN121ML2B DLP31SN121ML2L

## Appearance & Shape



## Features

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: +0.15mm)
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

Other Usage	For general
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### 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

## Packaging Information

Packaging	Specifications	Minimum Order Quantity
B	Bulk(Bag)	500
L	180mm Embossed Tape	3000

### Attention

1. This datasheet is downloaded from the website of Murata Manufacturing Co., Ltd. Therefore, its specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
2. This datasheet has only typical specifications because there is no space for detailed specifications. Therefore, please review our product specifications or consult the approval sheet for product specifications before ordering.

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## Specifications

Shape	SMD	Mass(typ.)	0.03g
Size Code (in mm)	3216	Number of Circuit	1
Size Code (in inch)	1206	Operating Temperature Range(Self-temperature rise is included)	No
Length	3.2mm		
Length Tolerance	±0.15mm		
Width	1.6mm		
Width Tolerance	±0.15mm		
Thickness	1.15mm		
Thickness Tolerance	±0.15mm		
Common Mode Impedance (at 100MHz)	120Ω		
Common Mode Impedance (at 100MHz) Tolerance	±20%		
Rated Voltage	16Vdc		
Withstanding Voltage	40Vdc		
DC Resistance(max.)	2Ω		
DC Resistance	2.0Ω max.		
Insulation Resistance(min.)	100MΩ		
Operating Temperature Range	-40°C to 85°C		

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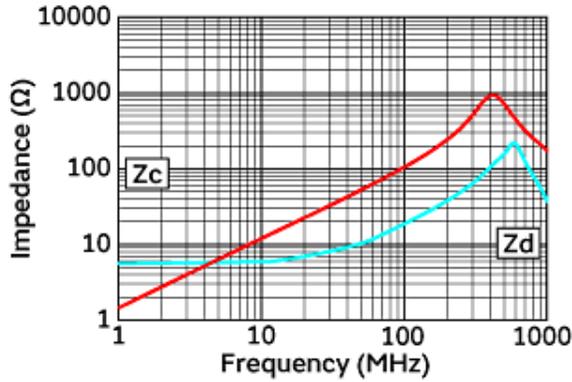
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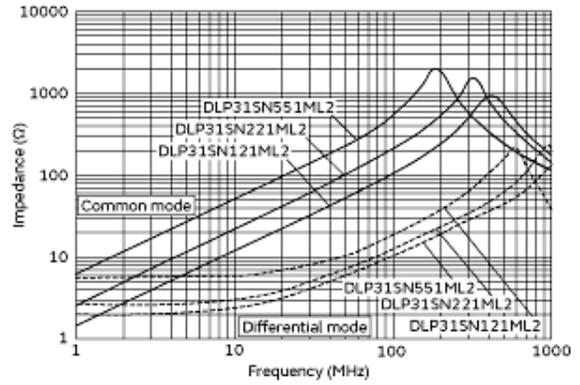
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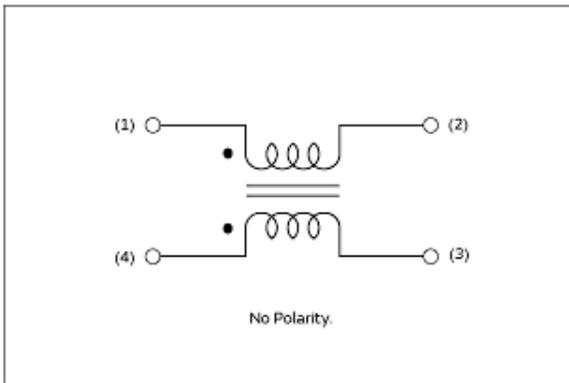
## Product Data



Impedance-Frequency Characteristics



Impedance-Frequency Characteristics (Main Items)



Equivalent Circuit

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