# On-Board Type (DC) EMI Suppression Filters (EMIFIL®)



## Chip Common Mode Choke Coils Film Type DLP0NS/11S/31S Series

## **DLP0NS Series**

#### Features

- 1. Small size and tight dimensional tolerance Size: 0.85x0.65x0.45mm Tolerance: +-0.05mm
- 2. Useful impedance line-up from 67 ohm to 120 ohm
- 3. DLPONS series enables noise suppression for differential signal line without distortion in high-speed signal transmission due to its line impedance matching



Common mode noise suppression of high speed differential signal lines for USB 2.0, IEEE1394, LVDS

1. Note PCs

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- 2. Cellular phones
- 3. Digital Still Cameras, Digital Video 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)
DLP0NSN670HL2	67 ±20%	110	5	100	12.5	2.4 ±25%
DLP0NSN900HL2	90 ±20%	100	5	100	12.5	3.0 ±25%
DLP0NSN121HL2	120 ±20%	90	5	100	12.5	3.8 ±25%

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

## Equivalent Circuit



## ■ Impedance - Frequency



Continued on the following page.



DI PONS Series





0.27+0.1

#### Continued from the preceding page.

#### ■ Transmission Characteristics (Typical)



## **DLP11S Series**

#### Features

- 1. Small size and tight dimensional tolerance Size: 1.25x1.0x0.82mm Tolerance: +-0.1mm
- 2. Useful impedance line-up from 67 ohm to 330 ohm
- 3. DLP11S series enables noise suppression for differential signal line without distortion in high-speed signal transmission due to its high coupling
- 4. DLP11SN\_HL2, DLP11SA series match with line impedance
- 5. High Cutoff Frequency is suitable for high speed differential signal line such as HDMI. Cutoff Frequency: 6GHz (DLP11SA series)

#### Applications

Common mode noise suppression of high speed differential signal lines for USB, IEEE1394, LVDS

- 1. Note PCs, PDAs
- 2. Cellular phones
- 3. Digital Still Cameras, Digital Video Cameras



0.3±0.1



**DLP11S Series** 



(in mm)

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)
DLP11SA350HL2	35 ±20%	170	5	100	12.5	0.9 ±25%
DLP11SA670HL2	67 ±20%	150	5	100	12.5	1.2 ±25%
DLP11SN670SL2	67 ±20%	180	5	100	12.5	1.3 ±25%
DLP11SA900HL2	90 ±20%	150	5	100	12.5	1.4 ±25%
DLP11SN900HL2	90 ±20%	150	5	100	12.5	1.5 ±25%
DLP11SN121SL2	120 ±20%	140	5	100	12.5	2.0 ±25%
DLP11SN161SL2	160 ±20%	120	5	100	12.5	2.7 ±25%
DLP11SN201HL2	200 ±20%	110	5	100	12.5	3.1 ±25%
DLP11SN241HL2	240 ±20%	100	5	100	12.5	3.5 ±25%
DLP11SN281HL2	280 ±20%	90	5	100	12.5	4.2 ±25%
DLP11SN331HL2	330 ±20%	80	5	100	12.5	4.9 ±25%

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



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#### Equivalent Circuit



## ■ Impedance - Frequency



#### ■ Transmission Characteristics (Typical)







