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

Chip EMIFIL® LC Combined Array Type NFA18S/21S Series

NFA18S Series

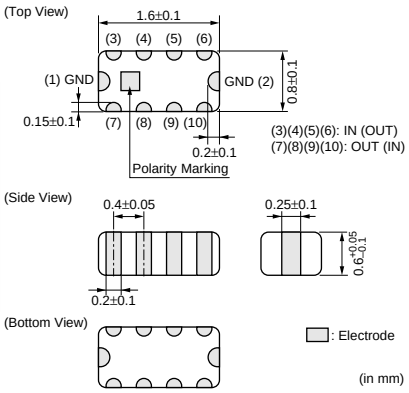
■ Feautures

1. NFA18SL series is LC combined noise suppression filter whose noise suppression curve is very steep and deep in spite of its small shape.
2. [cutoff frequency 300MHz, 400MHz, 480MHz type]
   These products have good noise suppression effect at the frequency range over 800MHz which is important for sensitivity of mobile phones, and suppress radiation noise from LCD lines or camera module lines very well.
   [cutoff frequency 130MHz, 180MHz, 200MHz type]
   These products have good noise suppression effect at UHF range in addition to 800MHz range.
   This characteristics works well at noise suppression for improvement of sensitivity at digital TVs.
3. Various cutoff frequency is available to control signal rise speed and signal fall speed.
4. circuits are built in 1.6x0.8mm chip size, it saves the large amount of mounting space.

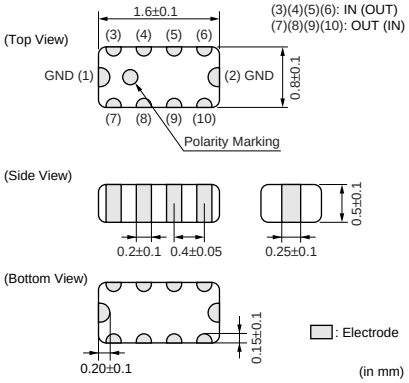
■ Aplication

Noise suppression of LCD signal lines, camera module lines.

NFA18SL
137/187/207
V1A45



NFA18SL
307/407/487
V1A45

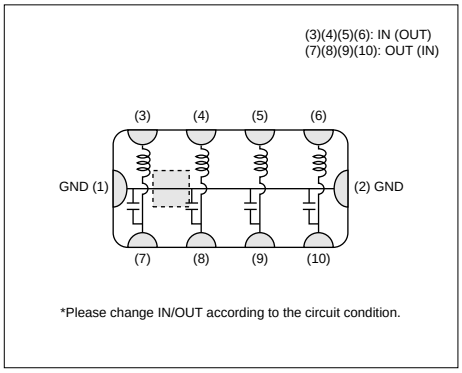


Part Number	Cut-off Frequency (MHz)	Insertion Loss at Cut-off Frequency (dB)	Insertion Loss at 470MHz (min.) (dB)	Insertion Loss at 800MHz (min.) (dB)	Insertion Loss at 900MHz (min.) (dB)	Insulation Resistance (min.) (M ohm)	Rated Voltage (Vdc)	Rated Current (mA)	Withstand Voltage (Vdc)
NFA18SL137V1A45	130	6 max	25	-	25	1000	10	50	30
NFA18SL187V1A45	180	6 max	20	-	20	1000	10	50	30
NFA18SL207V1A45	200	6 max	15	-	15	1000	10	50	30
NFA18SL307V1A45	300	6 max	-	20	20	1000	10	100	30
NFA18SL407V1A45	400	6 max	-	18	18	1000	10	100	30
NFA18SL487V1A45	480	6 max	-	15	15	1000	10	100	30

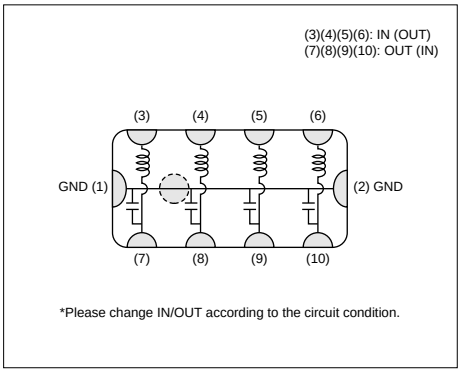
Operating Temperature Range: -40°C to +85°C Number of Circuits: 4

■ Equivalent Circuit

NFA18SL 137/187/207 V1A45



NFA18SL 307/407/487 V1A45



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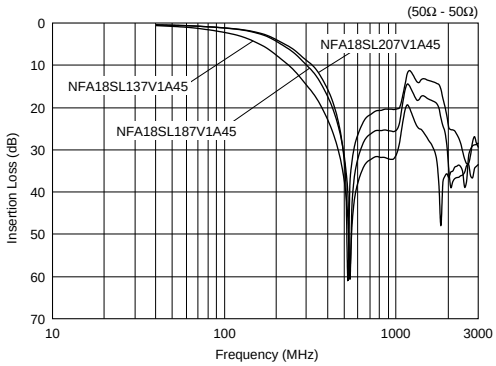
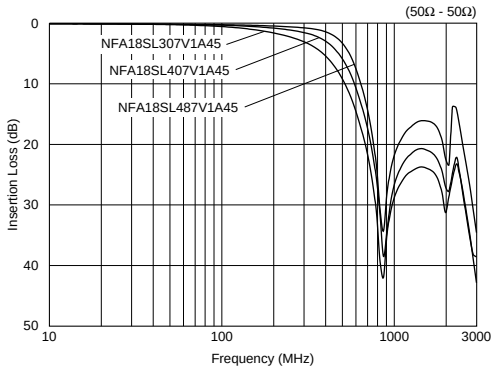
■ Insertion Loss Characteristics





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NFA21S Series

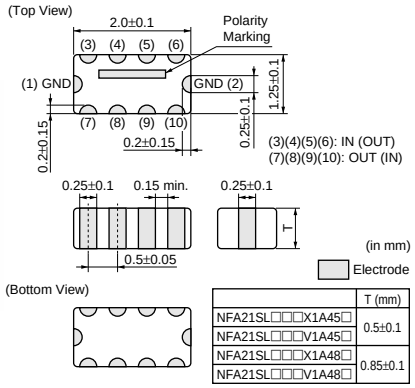
■ Features

1. Steep insertion loss characteristics
2. Suitable for noise suppression in 800MHz or higher frequency
3. Size: 2.0x1.25mm
4. 4 circuits in one package

■ Applications

Noise suppression for LCD line

NFA21S Series

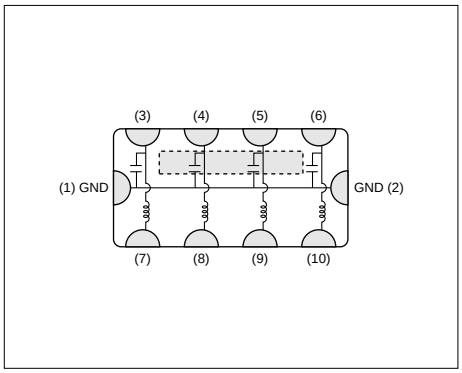


	T (mm)
NFA21SL□□□X1A45□	0.5±0.1
NFA21SL□□□V1A45□	
NFA21SL□□□X1A48□	0.85±0.1
NFA21SL□□□V1A48□	

Part Number	Cut-off Frequency (MHz)	Insertion Loss at Cut-off Frequency (dB)	Insertion Loss at 500MHz (min.) (dB)	Insertion Loss at 800MHz (min.) (dB)	Insertion Loss at 900MHz (min.) (dB)	Insertion Loss at 1000MHz (min.) (dB)	Insulation Resistance (min.) (M ohm)	Rated Voltage (Vdc)	Rated Current (mA)	Withstand Voltage (Vdc)
NFA21SL506X1A48	50	0 to 6	30	-	-	20	1000	10	20	30
NFA21SL806X1A48	80	2 to 7	25	-	-	25	1000	10	20	30
NFA21SL207X1A45	200	2 to 7	13	25	-	25	1000	10	100	30
NFA21SL207X1A48	200	2 to 7	13	25	-	25	1000	10	100	30
NFA21SL307X1A45	300	2 to 7	7	20	-	25	1000	10	100	30
NFA21SL307X1A48	300	2 to 7	7	20	-	25	1000	10	100	30
NFA21SL287V1A45	280	6 max	-	25	25	-	1000	10	100	30
NFA21SL287V1A48	280	6 max	-	25	25	-	1000	10	100	30
NFA21SL317V1A45	310	6 max	-	20	20	-	1000	10	100	30
NFA21SL317V1A48	310	6 max	-	20	20	-	1000	10	100	30
NFA21SL337V1A45	330	6 max	-	15	15	-	1000	10	100	30
NFA21SL337V1A48	330	6 max	-	20	20	-	1000	10	100	30

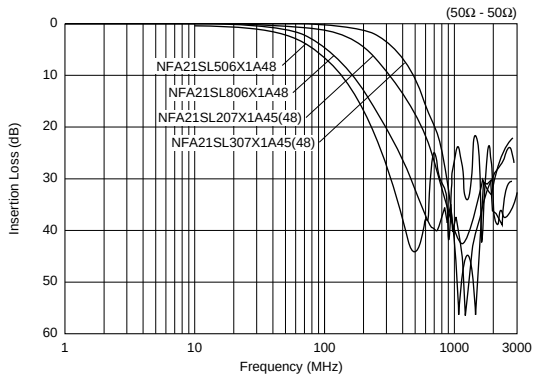
Operating Temperature Range: -55°C to +125°C Number of Circuits: 4

■ Equivalent Circuit

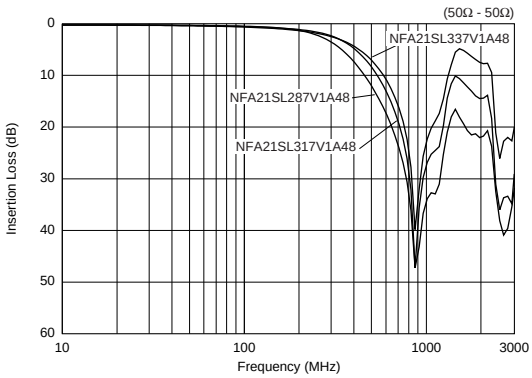


■ Insertion Loss Characteristics

NFA21SL_X Series



NFA21SL_V_48 Series



NFA21SL_V_45 Series