

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

**muRata**

## Chip EMIFIL® RC Combined Type NFR21G Series

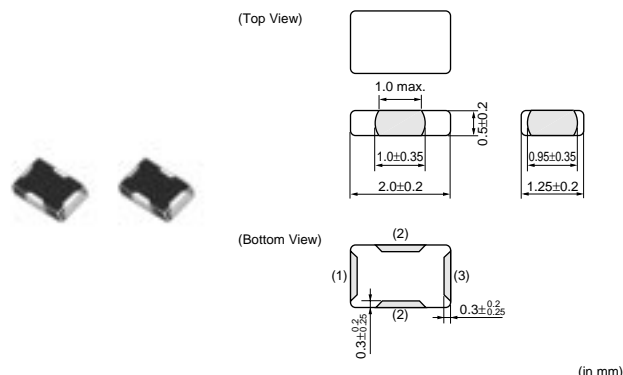
The NFR21G series comprises high performance EMI suppression filters which can suppress distortion of waveform. Various items are to be used, considering circuit impedance and noise condition.

### ■ Features

1. Murata's original inner design realizes small and low profile of 2.0x1.25x0.5mm.
2. Distributed constant circuit realizes smooth change of impedance which prevents reflection of signal and distortion of wave shape.
3. The NFR21G series is effective in a line where ground is not stable, because the resistance element in the filter absorbs noise and returns it to ground line.
4. The NFR21G series has no polarity so it can be used in dual direction transport lines.
5. The NFR21G series has various lineups of resistance (22 to 100ohm) and capacitance (10 to 100pF).

### ■ Applications

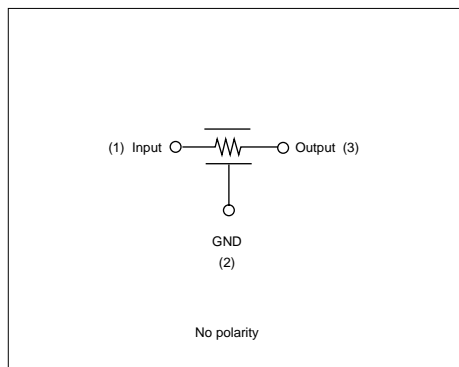
Interface lines and clock lines where signals are tend to be distorted



Part Number	Capacitance (pF)	Resistance (ohm)	Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (M ohm)	Operating Temperature Range (°C)
NFR21GD1002202	10 +20%,-20%	22 +30%,-30%	50	50	1000	-40 to 85
NFR21GD1004702	10 +20%,-20%	47 +30%,-30%	35	50	1000	-40 to 85
NFR21GD4702202	47 +20%,-20%	22 +30%,-30%	50	50	1000	-40 to 85
NFR21GD4704702	47 +20%,-20%	47 +30%,-30%	35	50	1000	-40 to 85
NFR21GD4706802	47 +20%,-20%	68 +30%,-30%	30	50	1000	-40 to 85
NFR21GD4701012	47 +20%,-20%	100 +30%,-30%	25	50	1000	-40 to 85
NFR21GD1012202	100 +20%,-20%	22 +30%,-30%	50	50	1000	-40 to 85
NFR21GD1014702	100 +20%,-20%	47 +30%,-30%	35	50	1000	-40 to 85
NFR21GD1016802	100 +20%,-20%	68 +30%,-30%	30	50	1000	-40 to 85
NFR21GD1011012	100 +20%,-20%	100 +30%,-30%	25	50	1000	-40 to 85

Number of Circuits : 1

## ■ Equivalent Circuit



## ■ Insertion Loss Characteristics (Typical)

