

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

**muRata**

## Chip EMIFIL® RC Combined Type NFR21G Series

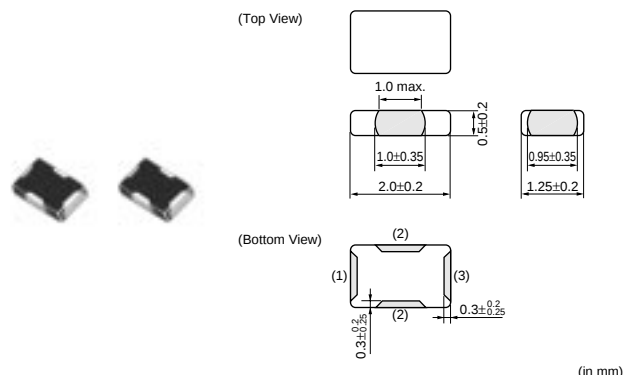
The NFR21G series comprises high performance EMI suppression filters which can suppress distortion of waveform. Various items are to be used, considering circuit impedance and noise condition.

### ■ 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

