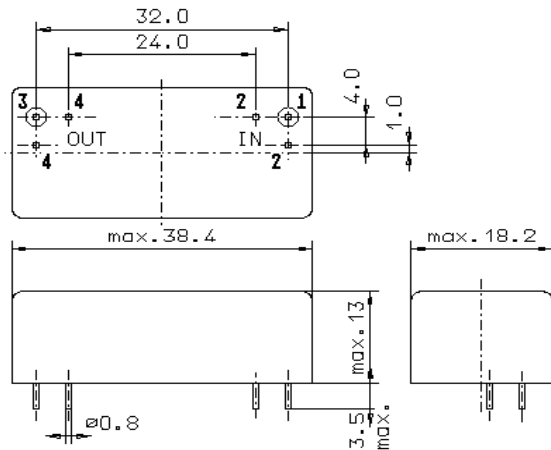


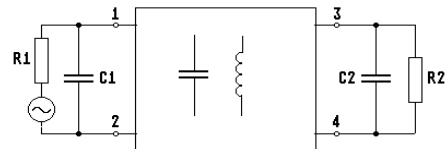
Specification for LC band pass filter: **LC 21.4-2.0/04V1**

## 1. General

### 1.1. Package:



GM17



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | LC 21.4-2.0/04V1 |
| 1.3. Number of poles:             | 4                |
| 1.4. Operating temperature range: | -20°C to +70°C   |
| 1.5. Storage temperature range:   | -40°C to +70°C   |

## 2. Electric values

- |  |   |
|--|---|
| 2.1. Nominal centre frequency $f_0$ :            | 21.4 MHz                                    |
| <b>2.2. Pass band</b>                            |   |
| 2.2.1. Bandwidth between 3 dB - frequencies:     | $\geq f_0 \pm 1.0$ MHz                      |
| 2.2.2. Ripple:                                   | $\leq 1.5$ dB at $f_0 \pm 500$ kHz          |
| 2.2.3. Group delay distortion:                   | $\leq 0.25$ $\mu$ s at $f_0 \pm 1.0$ MHz    |
| 2.2.4. Insertion loss:                           | $\leq 4.0$ dB                               |
| <b>2.3. Stop band</b>                            |   |
| 2.3.1. $f_0 + 4.2$ MHz                           | $\geq 45$ dB                                |
| 2.3.2. $f_0 + 6.5$ MHz                           | $\geq 60$ dB                                |
| 2.3.3. $f_0 - 5.0$ MHz                           | $\geq 45$ dB                                |
| 2.3.4. $f_0 - 8.5$ MHz                           | $\geq 60$ dB                                |
| 2.3.5. Alternate attenuation:                    | $\geq 60$ dB                                |
| 2.4. Terminating impedance ( input and output ): | 50 $\Omega$ // 0 pF                         |
| 2.5. Intermodulation                             |   |
| test frequencies:                                | $f_0 \pm 200$ kHz                           |
| input power level :                              | 0 dBm                                       |
| IM:  | $\geq 70$ dB                                |
| 3. Marking:                                      | manufacturer, date code<br>LC 21.4-2.0/04V1 |
| 4. Environment conditions:                       | Corresponding to Vectron standard CF001     |

Edited by: \_\_\_\_\_ date: \_\_\_\_\_ name: \_\_\_\_\_