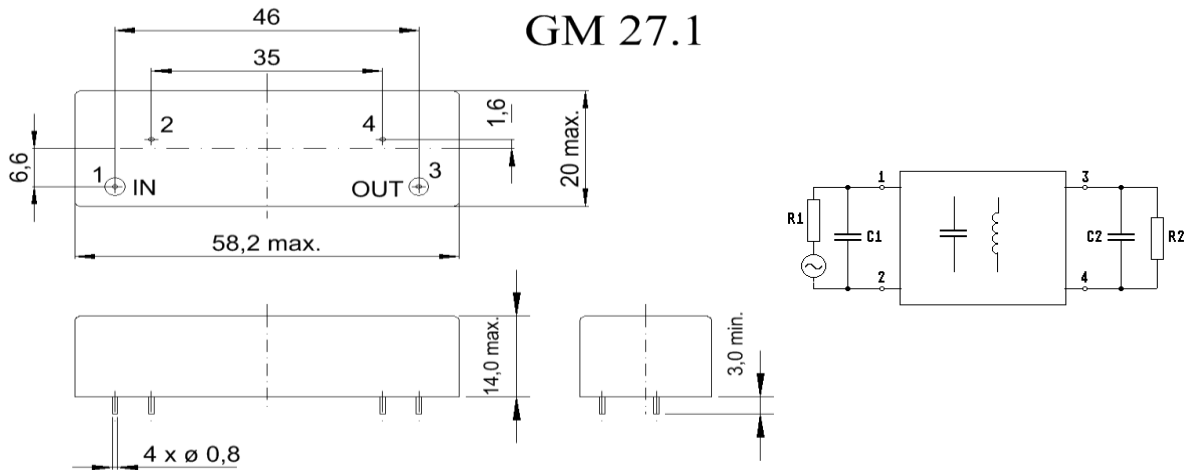


Specification for LC band pass filter: **LC 21.4-2.0/07V2**

## 1. General

### 1.1. Package:



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | LC 21.4-2.0/07V2 |
| 1.3. Number of poles:             | 6                |
| 1.4. Operating temperature range: | -10°C to +70°C   |
| 1.5. Storage temperature range:   | -40°C to +75°C   |

## 2. Electric values

- |                                       |          |
|---------------------------------------|----------|
| 2.1. Nominal centre frequency $f_0$ : | 21.4 MHz |
|---------------------------------------|----------|

### 2.2. Pass band

- |  |                                    |
|--|------------------------------------|
| 2.2.1. Centre frequency $f_c$ :              | 21.4 MHz $\pm$ 60 kHz              |
| 2.2.2. Bandwidth between 3 dB - frequencies: | $\geq f_0 \pm 1.0$ MHz             |
| 2.2.3. Ripple:                               | $\leq 1.5$ dB at $f_0 \pm 800$ kHz |
| 2.2.4. Return loss:                          | $> 10$ dB at $f_0 \pm 800$ kHz     |
| 2.2.5. Insertion loss:                       | $\leq 4.0$ dB                      |

### 2.3. Stop band

- |   |                                   |
|---|-----------------------------------|
| 2.3.1. $f_0 \pm 4.0$ MHz                                    | $> 60$ dB                         |
| 2.3.2. Alternate Attenuation                                | $> 90$ dB                         |
| 2.4. Terminating impedance ( input and output ):            | 50 $\Omega$ // 0 pF               |
| 2.5. Out band Intermodulation ( IP3 > 30 dBm ) frequencies: | $f_0 \pm 2$ MHz / $f_0 \pm 4$ MHz |
| input power level at pin 1:                                 | 0 dBm                             |
| relative attenuation at $f_0$ relating to level at pin 1:   | $> 60$ dB                         |

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>LC 21.4-2.0/07V2 |
|-------------|---|

- |                            |   |
|----------------------------|---|
| 4. Environment conditions: | Corresponding to Vectron standard CF001 |
|----------------------------|---|

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