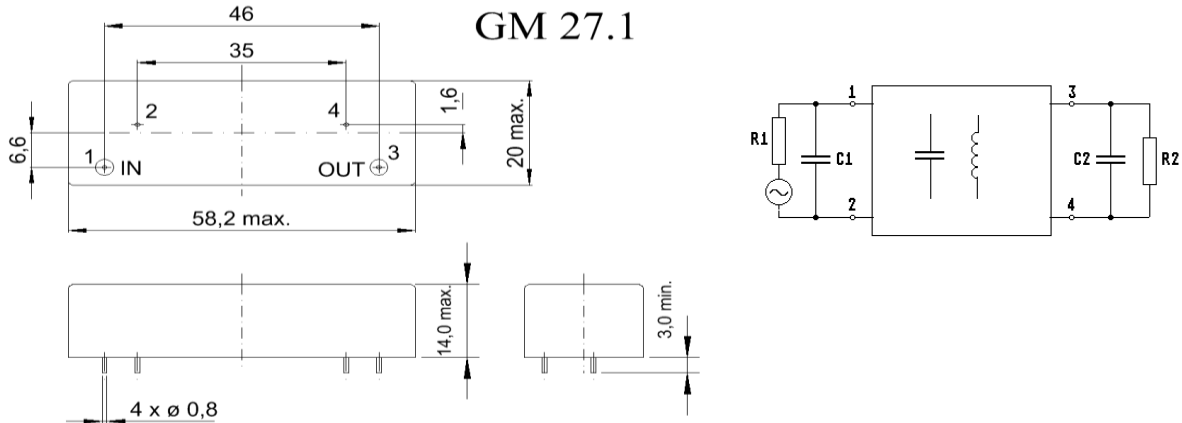


Specification for LC band pass filter: **LC 21.4-8.0/07V1**

1. General

1.1. Package:



- 1.2. Type name: LC 21.4-8.0/07V1
- 1.3. Number of poles: 5
- 1.4. Operating temperature range: -10°C to +70°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 (arithmetic mean, $(f_0+f_u)/2$): 21.4 MHz \pm 300 kHz
- 2.2.2. Bandwidth between 3 dB - frequencies: $\geq f_0 \pm 4.0$ MHz
- 2.2.3. Ripple: ≤ 1.5 dB at $f_0 \pm 3.2$ MHz
- 2.2.4. Return loss: > 10 dB at $f_0 \pm 3.2$ MHz
- 2.2.5. Insertion loss: ≤ 4.0 dB

2.3. Stop band

- 2.3.1. $f_0 \pm 16$ MHz ≥ 60 dB
- 2.3.2. $f_0 -20$ MHz.....-21.4 MHz ≥ 90 dB
- 2.3.3. $f_0 +30$ MHz.....+50 MHz ≥ 90 dB

- 2.4. Terminating impedance (input and output): 50 Ω // 0 pF

- 2.5. Out band Intermodulation (IP3 $>$ +30 dBm)
frequency 1 / 2: $f_0 \pm 8$ MHz / $f_0 \pm 16$ MHz
input power level : 0 dBm
IM: ≥ 60 dB

- 3. Marking: manufacturer, date code
LC 21.4-8.0/07V1

- 4. Environment conditions: Corresponding to Vectron standard CF001

Edited by: _____ date: _____ name: _____