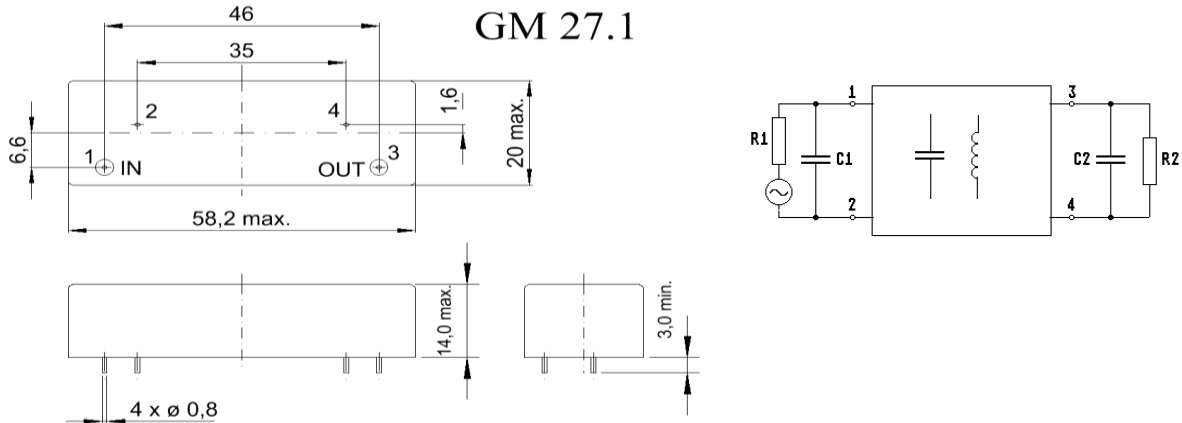


Specification for LC band pass filter: **LC 21.4-8.0/07V1**

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 |

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|--|---------------------|
| 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: _____