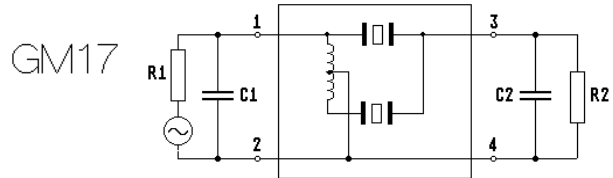
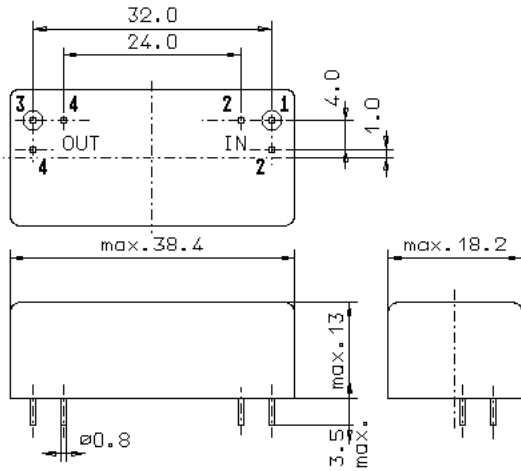


Specification for crystal filter:

**QF 23.1-12500/02**

**1. General**

**1.1. Package:**



- |                                   |                  |
|-----------------------------------|------------------|
| 1.2. Type name:                   | QF 23.1-12500/02 |
| 1.3. Number of poles:             | 6                |
| 1.4. Operating temperature range: | -20°C to +70°C   |
| 1.5. Storage temperature range:   | -45°C to +85°C   |

**2. Electric values**

- |                                   |          |
|-----------------------------------|----------|
| 2.1. Nominal centre frequency fo: | 23.1 MHz |
|-----------------------------------|----------|

**2.2. Pass band**

- |   |                       |
|---|-----------------------|
| 2.2.1. Bandwidth between 1 dB - frequencies:      | > fo ± 62.5 kHz       |
| 2.2.2. Ripple at fo ± 62.5 kHz:                   | < 1.0 dB peak to peak |
| 2.2.3. Insertion loss:                            | < 5.0 dB              |
| ( measured on smallest attenuation in pass band ) |                       |

**2.3. Stop band**

- |   |                         |
|---|-------------------------|
| 2.3.1. fo - 550 MHz                                   | > 60 dB                 |
| 2.3.2. fo + 490 MHz                                   | > 60 dB except spurious |
| 2.3.3. Alternate attenuation:                         | > 60 dB except spurious |
| 2.3.4. Spurious responses ( fo + 490.....+1500 kHz ): | > 30 dB                 |

- |  |                                     |
|--|-------------------------------------|
| 2.4. Terminating impedance ( input and output ): | 50 Ω // 0 pF                        |
| 2.5. Maximum input power level:                  | +10 / +20 ( working / non-damaged ) |

- |             |   |
|-------------|---|
| 3. Marking: | manufacturer, date code<br>QF 23.1-12500/02 |
|-------------|---|

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

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