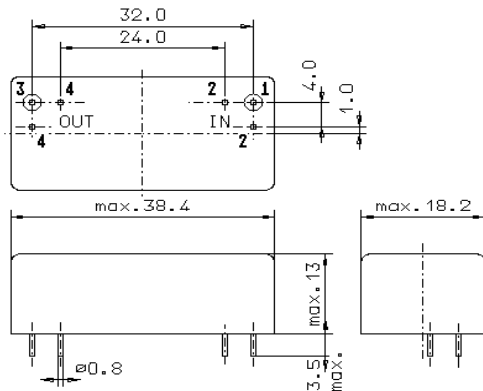


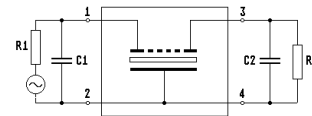
Specification for monolithic crystal filter:

**QF 10.6966-0050/02**
**1. General**

## 1.1. Case:



GM17



- |                                   |                    |
|-----------------------------------|--------------------|
| 1.2. Type name:                   | QF 10.6966-0050/02 |
| 1.3. Number of poles:             | 4                  |
| 1.4. Operating temperature range: | -20°C to +70°C     |
| 1.5. Storage temperature range:   | -40°C to +85°C     |

**2. Electric values**

- |                                       |             |
|---------------------------------------|-------------|
| 2.1. Nominal centre frequency $f_0$ : | 10.6966 MHz |
|---------------------------------------|-------------|

**2.2. Pass band**

- |   |                           |
|---|---------------------------|
| 2.2.1. Bandwidth between 3 dB - frequencies:                                | $> f_0 \pm 250$ Hz        |
| 2.2.2. Ripple:  | $< 1.0$ dB (peak to peak) |
| 2.2.3. Insertion loss:<br>( measured on smallest attenuation in pass band ) | $< 2.5$ dB                |

**2.3. Stop band**

- |                              |                               |
|------------------------------|-------------------------------|
| 2.3.1. $f_0 \pm 5$ kHz       | $> 60$ dB                     |
| 2.3.2. Alternate attenuation | $> 80$ dB ( except spurious ) |

- |  |                      |
|--|----------------------|
| 2.4. Terminating impedance ( input and output ): | 100 $\Omega$ // 0 pF |
|--|----------------------|

- |                                 |                                     |
|---------------------------------|-------------------------------------|
| 2.5. Maximum input power level: | +10 / +20 ( working / non-damaged ) |
|---------------------------------|-------------------------------------|

**2.6. Intermodulation:**

- |                                      |   |
|--------------------------------------|---|
| frequency 1:                         | 10.6956 Mhz                               |
| frequency 2:                         | 10.6976 MHz                               |
| input power level at pin 1( input ): | 0 dBm                                     |
| IM (IP3 $> +33$ dBm):                | $> 66$ dB (referred to input power level) |

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|-------------------------|---------------------------------------|
| 3. Marking on the case: | firm, year week<br>QF 10.6966-0050/02 |
|-------------------------|---------------------------------------|

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|----------------------------|-----------------------------------|
| 4. Environment conditions: | Corresponding to Telefilter CF001 |
|----------------------------|-----------------------------------|

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