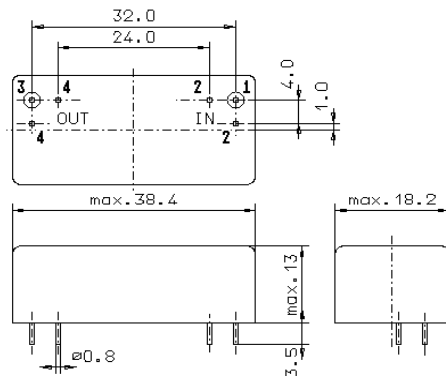


Specification for monolithic crystal filter:

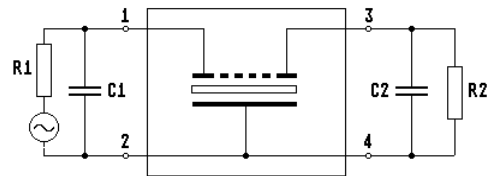
MQF 10.7-0300/11

1. General

1.1. Package:



GM17



- | | |
|-----------------------------------|------------------|
| 1.2. Type name: | MQF 10.7-0300/11 |
| 1.3. Number of poles: | 6 |
| 1.4. Operating temperature range: | 0°C to +50°C |
| 1.5. Storage temperature range: | -25°C to +85°C |

2. Electric values

- | | |
|---------------------------------------|----------|
| 2.1. Nominal centre frequency f_0 : | 10.7 MHz |
|---------------------------------------|----------|

2.2. Pass band

- | | |
|---|---|
| 2.2.1. Centre frequency f_c : | 10.7 MHz $\pm$ 400 Hz |
| 2.2.2. Bandwidth between 3 dB - frequencies: | $\geq f_c \pm 1.35$ kHz
$\leq f_c \pm 1.65$ kHz |
| 2.2.3. Ripple (at $f_c \pm 0.75$ kHz): | ≤ 0.5 dB |
| 2.2.4. Phase difference for pairs at f_c ($\Delta\phi_c$): | $\leq 12^\circ$ |
| 2.2.5. Phase tracking for pairs referred back to $\Delta\phi_c$: | $\leq 6^\circ$ at $f_c \pm 1.2$ kHz (i.e. $\Delta\phi \leq 6^\circ + \Delta\phi_c$) |
| 2.2.6. Reflection loss (at $f_c \pm 1.35$ kHz): | ≥ 9.55 dB (i.e. VSWR < 2) |
| 2.2.7. Insertion loss:
(measured on smallest attenuation in pass band) | ≤ 5.0 dB |

2.3. Stop band

- | | |
|--|----------------------------------|
| 2.3.1. $f_0 \pm 7.5$ kHz | ≥ 60 dB |
| 2.3.2. Alternate attenuation: | ≥ 80 dB (except spurious) |
| 2.4. Terminating impedance (input and output): | 50 Ω // 0 pF |

- | | |
|-------------|---|
| 3. Marking: | manufacturer, date code
MQF 10.7-0300/11 |
|-------------|---|

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

Edited by: _____ date: _____ name: _____