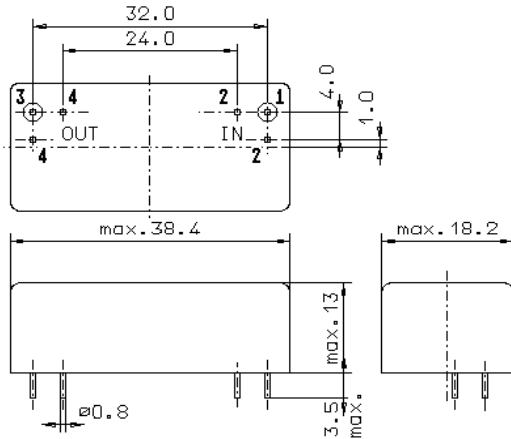


Specification for monolithic crystal filter:

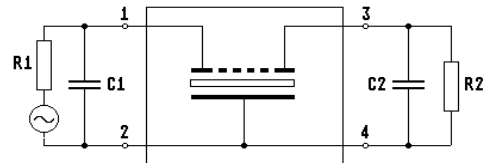
MQF 10.0-1500/06

1. General

1.1. Package:



GM17



- | | |
|---|------------------|
| 1.2. Type name: | MQF 10.0-1500/06 |
| 1.3. Number of poles: | 8 |
| 1.4. Operating temperature range (OTR): | -20°C to +70°C |
| 1.5. Storage temperature range: | -40°C to +85°C |

2. Electric values

- | | |
|---|---|
| 2.1. Nominal centre frequency fo: | 10.0 MHz |
| 2.2. Pass band | |
| 2.2.1. Bandwidth between 3 dB - frequencies: | $> f_o \pm 7.5 \text{ kHz}$ |
| 2.2.2. Ripple at $f_o \pm 4.0 \text{ kHz}$: | $< 1.0 \text{ dB}$ (peak to peak) |
| 2.2.3. Differential group delay $f_o \pm 4.0 \text{ kHz} / f_o \pm 2.0 \text{ kHz}$: | $< 12 \mu\text{s} / < 3.0 \mu\text{s}$ |
| 2.2.4. Group delay asymmetry between lower and upper group delay range referred to f_o (lower: $f_o - 4 \text{ kHz} \leq f \leq f_o$, upper: $f_o \leq f \leq f_o + 4 \text{ kHz}$): | $< 2.0 \text{ dB}$ typical at +25°C and $< 3.0 \text{ dB}$ typical in OTR |
| 2.2.5. Insertion loss:
(measured on smallest attenuation in pass band) | $< 3.0 \text{ dB}$ |
| 2.3. Stop band | |
| 2.3.1. $f_o \pm 15 \text{ kHz}$ | $> 30 \text{ dB}$ |
| 2.3.2. $f_o \pm 20 \text{ kHz}$ | $> 50 \text{ dB}$ |
| 2.3.3. $f_o \pm 25 \text{ kHz}$ | $> 70 \text{ dB}$ |
| 2.3.4. Alternate attenuation | $> 80 \text{ dB}$ (except spurious) |
| 2.4. Terminating impedance (input and output): | 50 // 0 pF |
| 2.5. Maximum continuous input power level: | +10 dBm / +20 dBm (working / non-damaged) |
| 3. Marking: | manufacturer, date code
MQF 10.0-1500/06 |
| 4. Environment conditions: | Corresponding to Vectron MIL standard |

Edited by: _____ date: _____ name: _____