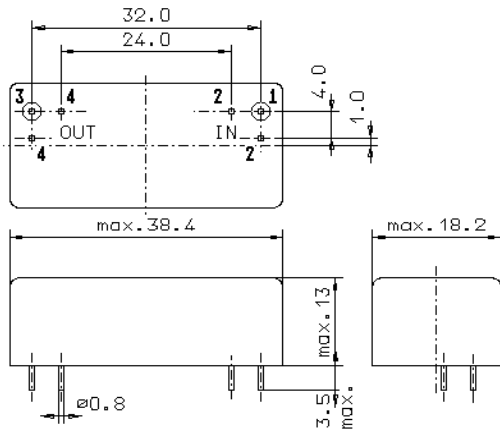
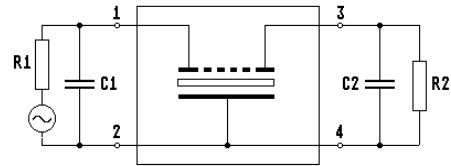


Specification for monolithic crystal filter: **MQF 10.0-1500/06**
1. General
1.1. Package:


GM17



- | | |
|---|-----------------|
| 1.2. Type name: | MQF10.0-1500/06 |
| 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 f_0 : | 10.0 MHz |
| 2.2. Pass band | |
| 2.2.1. Bandwidth between 3 dB - frequencies: | $> f_0 \pm 7.5$ kHz |
| 2.2.2. Ripple at $f_0 \pm 4.0$ kHz: | < 1.0 dB (peak to peak) |
| 2.2.3. Differential group delay $f_0 \pm 4.0$ kHz / $f_0 \pm 2.0$ kHz: | < 12 μ s / < 3.0 μ s |
| 2.2.4. Group delay asymmetry between lower and upper group delay range referred to f_0 (lower: $f_0 - 4$ kHz $\leq f \leq f_0$, upper: $f_0 \leq f \leq f_0 + 4$ kHz): | < 2.0 dB typical at +25°C and < 3.0 dB typical in OTR |
| 2.2.5. Insertion loss:
(measured on smallest attenuation in pass band) | < 3.0 dB |
| 2.3. Stop band | |
| 2.3.1. $f_0 \pm 15$ kHz | > 30 dB |
| 2.3.2. $f_0 \pm 20$ kHz | > 50 dB |
| 2.3.3. $f_0 \pm 25$ kHz | > 70 dB |
| 2.3.4. Guaranteed attenuation: | > 80 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 MCHP general test procedure MCF-HiRel |

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