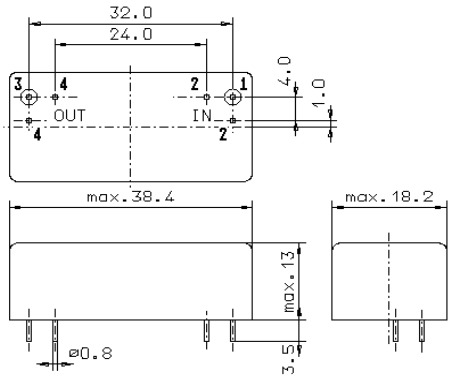
VECTRON INTERNATIONAL
A DOVER COMPANY

20 March 2000

Specification for monolithic crystal filter: **M Q F 1 0 . 7 - 0 3 0 0 / 1 1**

## 1. General

1.1. Case:

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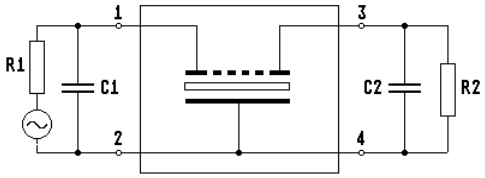


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|---|---|---|
| 1.2. | Type name: | MQF 10.7-0300/11 |
| 1.3. | Number of poles: | 6 |
| 1.4. | Operating temperature range: | 0°C to +50°C |
| 1.5. | Storage temperature range: | -25°C to +85°C |

## 2. Electric values

| | | |
|---|---|---|
| 2.1. | Nominal centre frequency fo: | 10.7 MHz |
| 2.2. | **Pass band** | |
| 2.2.1. | Centre frequency fc: | 10.7 MHz ± 400 Hz |
| 2.2.2. | Bandwidth between 3 dB - frequencies: | ≥ fc ± 1.35 kHz<br>≤ fc ± 1.65 kHz |
| 2.2.3. | Ripple ( at fc ± 0.75 kHz ): | ≤ 0.5 dB |
| 2.3.4. | Phase difference for pairs at fc ( $\Delta\phi_c$ ): | ≤ 12° |
| 2.2.5. | Phase tracking for pairs refered back to $\Delta\phi_c$ : | ≤ 6° at fc ± 1.2 kHz ( i.e. $\Delta\phi \leq 6° + \Delta\phi_c$ ) |
| 2.3.6. | Reflection loss ( at fc ± 1.35 kHz ): | ≥ 9.55 dB ( i.e. VSWR < 2 ) |
| 2.2.7. | Insertion loss:<br>( measured on smallest attenuation in pass band ) | ≤ 5.0 dB |
| 2.3. | **Stop band** | |
| 2.3.1. | fo ± 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 on the case: | firm, year week<br>MQF 10.7-0300/11 |
| 4. | Environment conditions: | Corresponding to Telefilter CF001 |

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Edited by: date: _____ name: _____