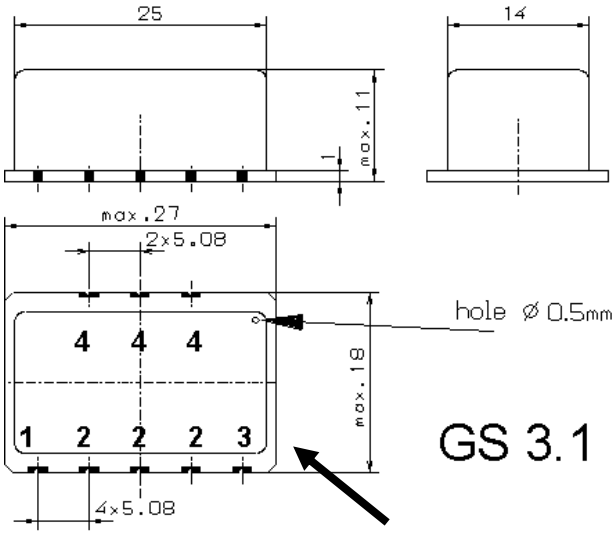
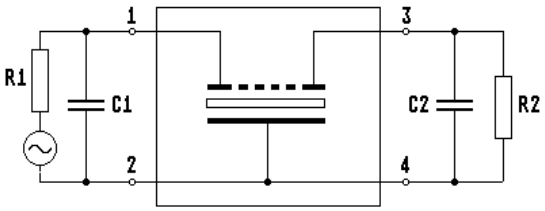
17 September 2010

Specification for monolithic crystal filter: **M Q F 7 1 . 8 5 - 2 5 0 0 / 1 2**

1. General

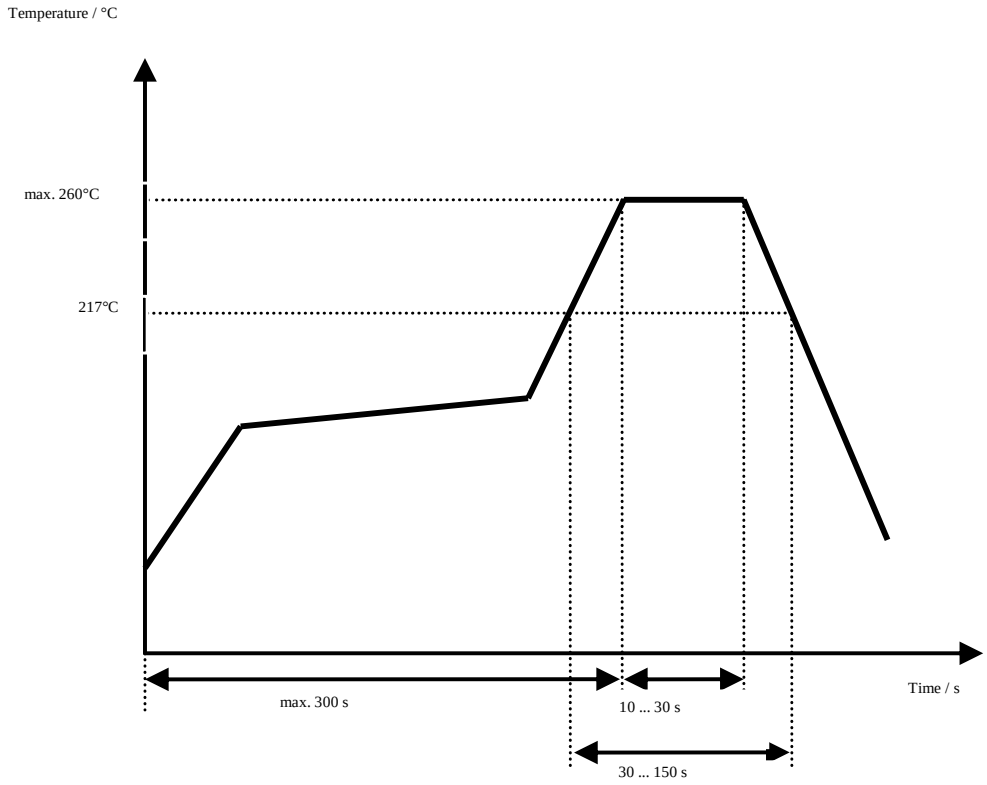
1.1. Package:





top view

Chip-mount air reflow profile



1.2.	Type name:	MQF 71.85-2500/12
1.3.	Number of poles:	6, fundamental mode
1.4.	Operating temperature range:	-40°C to +70°C
1.5.	Storage temperature range:	-45°C to +85°C

2. Electric values

2.1. Nominal centre frequency fo: 71.85 MHz

2.2. **Pass band**

2.2.1. Bandwidth between 6 dB - frequencies: > fo ± 12.5 kHz
2.2.2. Ripple: < 1.5 dB at fo ± 9 kHz
2.2.3. Group delay distortion: < 14 µs at fo ± 9 kHz
2.2.4. Insertion loss: < 4.5 dB
(measured on smallest attenuation in pass band)

2.3. **Stop band**

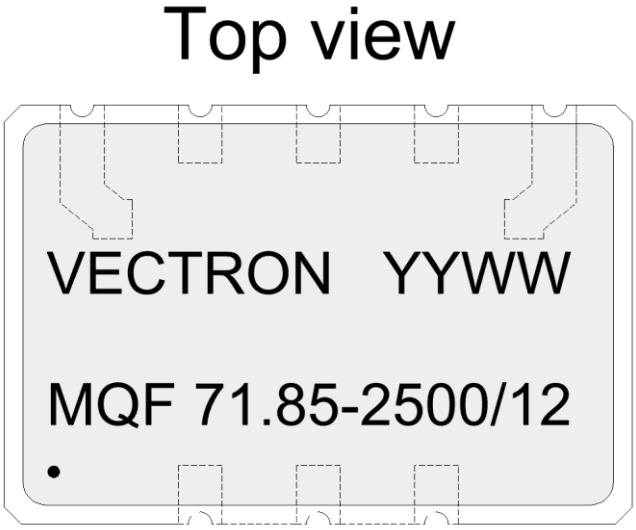
2.3.1. fo ± 30 kHz > 20 dB
2.3.2. fo ± 45 kHz > 40 dB
2.3.3. fo ± 60 kHz > 55 dB
2.3.4. fo -900 kHz……-1000 kHz > 80 dB
2.3.5. Spurious responses: > 50 dB

2.4. Terminating impedance (input and output): 50 Ω // 0 pF

2.5. Maximum input power level: -5 dBm (+5 dBm non-damaged)

2.6. Intermodulation measurement with two test tones of -28dBm power lever at filter's input and test tones frequencies at fo+200kHz / fo+400kHz and fo-200kHz / fo-400kHz. 3-rd order intermodulation products at fo have to be at least 90dB down from both of the -28dBm test tones which means that IP3 is better or equal then +17dBm

3. Laser or inkjet marking:



4. Environment conditions: Corresponding to Vectron CF001

Edited by: date: _____ name: _____