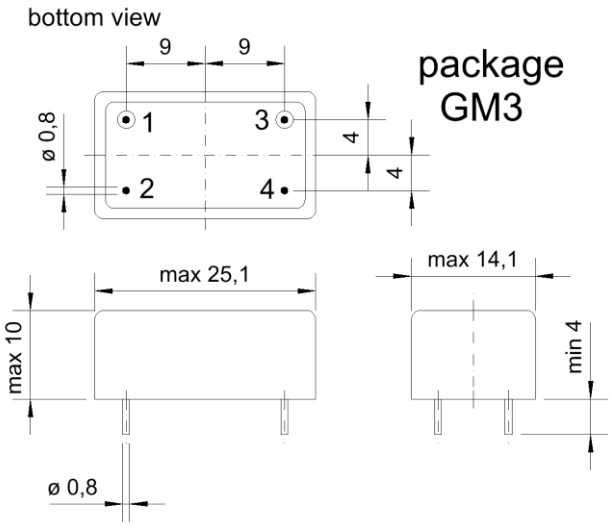
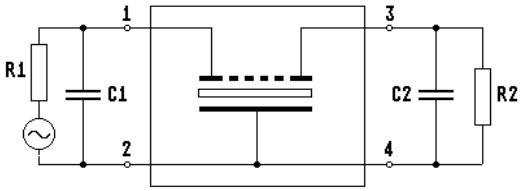
03 September 2014

Specification for monolithic crystal filter: **M Q F 4 5 . 0 - 0 7 0 0 / 1 2**

1. General

1.1. Package:





We recommend to solder the whole bottom on the PCB-GND to guarantee the best possible attenuation in stop band.

1.2.	Type name:	MQF 45.0-0700/12
1.3.	Number of poles:	10
1.4.	Operating temperature range (OTR):	-40°C to +85°C
1.5.	Storage temperature range:	-55°C to +85°C

2. Electric values

2.1.	Nominal centre frequency fo:	45.0 MHz

2.2. **Pass band**

2.2.1.	Centre frequency fc at +25°C and -10 dBm input power:	45.0 MHz ± 450 Hz
2.2.2.	Center frequency shift (Δfc) in OTR referred to +25°C:	< ± 20 ppm
2.2.3.	Bandwidth between 3 dB - frequencies:	> fc ± 3.5 kHz
2.2.4.	Ripple in pass band:	< 2.0 dB (peak to peak)
2.2.5.	Insertion loss: (measured on smallest attenuation in pass band)	< 8.5 dB

2.3. **Stop band**

2.3.1.	fc ± 7.0 kHz	> 45 dB
2.3.2.	fc ± 8.33 kHz	> 60 dB
2.3.3.	fc ± 11.5 kHz	> 80 dB
2.3.4.	fc ± 910 kHz	> 70 dB
2.3.5.	Alternate attenuation:	> 70 dB

2.4.	Terminating impedance (input and output):	50 Ω // 0 pF
2.5.	Maximum input power level:	-5 dBm / +10 dBm (operating / non-damaged) +20 dBm in stop band
3.	Marking:	manufacturer, date code MQF 45.0-0700/12
4.	Environment conditions:	Corresponding to Vectron MIL standard

Edited by: date: _____ name: _____