Specification for monolithic crystal filter: MQF 8.403512-0625/05

1. General
1.1. Package:

1.2. Type name: MQF 8.403512-0625/05
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 +105°C

2. Electric values
2.1. Nominal centre frequency fo: 8.403512 MHz

2.2. Pass band
2.2.1. Centre frequency fc at +25°C: 8.403512 MHz ± 150 Hz
2.2.2. Centre frequency change in OTR: < 8.0 ppm
2.2.3. Bandwidth between 2.5 dB - frequencies: > fc - 3.162 kHz / fc + 3.088 kHz
2.2.4. Bandwidth between 1.0 dB - frequencies: > fc - 2.90 kHz / fc + 2.488 kHz
2.2.5. Ripple: < 1.0 dB within fc - 2.90 kHz.... fc + 2.488 kHz
2.2.6. Group delay variation for any 100 Hz increment: < 100 µs within fc ± 2.80 kHz
2.2.7. Insertion loss: < 4.5 dB

( measured on smallest attenuation in pass band )

2.3. Stop band
2.3.1. fo - 3.5120 kHz: > 10 dB
2.3.2. fo ± 5.50 kHz: > 60 dB
2.3.3. fo - 11.762 kHz / fo + 8.238 kHz: > 70 dB
2.3.4. Guaranteed attenuation (DC....fo-12kHz and fo + 12 kHz......180 MHz): > 80 dB
2.3.5. Spurious responses (fo +50 kHz......500 kHz): > 80 dB

2.4. Terminating impedance (input and output): 50 Ω // 0 pF
2.5. Maximum input power level: +10 dBm / +20 dBm (working / non-damaged)

2.6. 3rd order in band intermodulation distortion: < 48 dB (at least 48 dB down from either of the two -30 dBm test tones)
- test tones frequencies: 8.4033MHz/8.4043MHz
- test tone power level: - 30 dBm

3. Marking: MQF 8.403512-0625/05

4. Environment conditions: Corresponding to Vectron MIL standard

Edited by: ____________________________ date: ____________________________ name: ____________________________