Specification for monolithic crystal filter: **MQF 73.4-2500/02**

1. General

   1.1. Package:

   - **Type name:** MQF 73.4-2500/02
   - **Number of poles:** 4
   - **Operating temperature range:** -30°C to +85°C
   - **Storage temperature range:** -40°C to +90°C

Reflow soldering: three times max.

max 300s
30...150s
10...30s
2. **Electric values**

2.1. Nominal centre frequency $f_0$: 73.4 MHz
2.1.1 Centre frequency $f_c$ at +25°C: 73.4 MHz ± 1.5 kHz

2.2. **Pass band**

2.2.1. Bandwidth between 3 dB - frequencies: $> f_c ± 12.5$ kHz
2.2.2. Ripple in pass band: $< 1.0$ dB peak to peak
2.2.3. Insertion loss: $< 6.0$ dB
   (measured on smallest attenuation in pass band)
2.2.4. Differential group delay at $f_c ± 9$ kHz: $< 16$ µs

2.3. **Stop band**

2.3.1. $f_c ± 25$ kHz: $> 15$ dB
2.3.2. $f_c ± 50$ kHz: $> 40$ dB
2.3.3. Alternate Attenuation at $f_c ± 1.0$ MHz: $> 70$ dB (except spurious)

2.4. Terminating impedance $R//C$ (input and output): 800 Ω // 1.5 pF
2.4.1. Coupling capacitance $C_c$: 4.0 pF

2.5. Maximum input power level
   working: -10 dBm
   non-damaged: 0 dBm

2.6. Out band Intermodulation (IP3 > +20 dBm)
   - test tones: $f_0 ± 25$ kHz / $f_0 ± 50$ kHz
   - Input power level: -20 dBm
   - 3rd order intermodulation products at $f_0$: $> 80$ dB (down from either of the -20 dBm test tones)

3. **Marking:**
   • M73425
   yyww

4. **Environment conditions:**
   Corresponding to Vectron standard CF001

5. Filters are Pb-free and 2002/95/EC RoHS compliant
6. Packing

maximum 1000 pcs. / reel

Tape dimension (mm)

Tape (all dimensions in mm)

- W: 16.0 ± 0.1
- Po: 4.0 ± 0.1
- P1: 8.0 ± 0.1
- P2: 2.0 ± 0.1
- Do: 1.5 ±0.1 / -0
- D1: 1.6 ±0.1 / -0
- E: 1.75 ± 0.1
- F: 7.5 ± 0.1
- Ko: 1.7 ± 0.1
- Ao: 5.6 ± 0.1
- Bo: 7.6 ± 0.1
- t: 0.3 ± 0.05

Reel (all dimension in mm)

- A: ø 178 ± 2
- C: ø 13 ± 0.5
- N: ø 60 ± 1
- W1: 17.5 ± 1.5
- W2: 21.5 ± 1.5

Edited by: ___________________________ date: ___________________________ name: ___________________________