Specification for monolithic crystal filter:  **MQF 70.05 - 2000/08**

1. General
1.1. Package:

Reflow soldering: three times max.

![Diagram of the circuit with pins and components](image)

Temperature (°C):

- 260°C max.
- 217°C

Graph showing time (s) vs. temperature (°C): max 300s, 30...150s, 10...30s

Reflow soldering: three times max.
1.2. Type name: MQF 70.05-2000/08
1.3. Number of poles: 4
1.4. Operating temperature range: -20°C to +70°C
1.5. Storage temperature range: -40°C to +85°C

2. Electric values

2.1. Nominal centre frequency fo: 70.05 MHz

2.2. Pass band

2.2.1. Bandwidth between 3 dB - frequencies: > fo ± 10.0 kHz
2.2.2. Ripple: (peak to valley) < 1.0 dB
2.2.3. Insertion loss: < 4.5 dB
( measured on smallest attenuation in pass band )

2.3. Stop band

2.3.1. fo ± 25 kHz > 20 dB
2.3.2. Alternate attenuation at fo ± 910 kHz > 70 dB (except spurious )
2.3.3. Spurious responses (within fo ± 1.0 MHz) > 35 dB

2.4. Terminating impedance R/C (input and output): 800 Ω // 1.0 pF
2.4.1 Coupling capacitance: 5.0 pF

2.5. Maximum input power, working / non-damaged -20 / 0 dBm

2.6. Out band Intermodulation

2.6.1. frequency 1/2: 70.0 MHz / 70.1 MHz
2.6.2. Input power level: -20 dBm
2.6.3. IMD > 90 dB

2.6.4. frequency 3/4: 69.95 MHz / 70.15 MHz
2.6.5. Input power level: -20 dBm
2.6.6. IMD > 90 dB

3. Marking: • M7005A yyww

4. Environment conditions: according to Vectron CF001

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

maximum 1000 pcs. / reel

drawing out direction (leading direction)

trailer

cover tape

leader part (400mm min.)

200mm min. 150mm min.

components placed

carrier tape

cover tape

250mm min. 150mm min.

drawing out direction (leading direction)

tape dimension (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 dimensions 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

maximum 1000 pcs. / reel