Specification for monolithic crystal filter: **MQF 70.0-2500/19**

1. General
1.1. Package:

1.2. Type name: **MQF 70.0-2500/19**
1.3. Number of poles: 4
1.4. Operating temperature range: -40°C to +85°C
1.5. Storage temperature range: -55°C to +85°C

Reflow soldering: three times max.
2. Electric values

2.1. Nominal centre frequency fo: 70.0 MHz

2.2. Pass band

2.2.1. Bandwidth between 3 dB - frequencies: > fo ± 12.5 kHz
2.2.2. Ripple in pass band (fo ± 8.0 kHz) < 1.0 dB peak to peak
2.2.3. Insertion loss: < 4.5 dB
   (measured on smallest attenuation in pass band)

2.3. Stop band

2.3.1. fo ± 29 kHz > 20 dB
2.3.2. fo ± 46 kHz > 40 dB
2.3.3. fo ± 80 kHz > 60 dB
2.3.4. Alternate Attenuation at fo - 1.0 MHz > 80 dB (except spurious)

2.4. Terminating impedance R/C (input and output): 600 Ω // 1.5 pF
2.4.1. Coupling capacitance Cc: 7.0 pF

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

3. Marking:
   • M70A12 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
D0: 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: ___________________