Specification for monolithic crystal filter: MQF 70.0-2200/02

1. General
1.1. Package:

1.2. Type name: MQF 70.0-2200/02
1.3. Number of poles: 4
1.4. Operating temperature range: -40°C to +85°C
1.5. Storage temperature range: -45°C to +85°C

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 ± 11.0 kHz
2.2.2. Ripple: < 1.0 dB at fo ± 8.0 kHz
2.2.3. Insertion loss: < 5.0 dB
   (measured on smallest attenuation in pass band)
2.3. Stop band
2.3.1. fo ± 30 kHz > 15 dB
2.3.2. fo ± 40 kHz > 30 dB
2.3.3. fo ± 65 kHz > 50 dB
2.3.4. Alternate attenuation fo ± 910 kHz > 65 dB (except spurious)
2.4. Terminating impedance R/C (input and output): 800 Ω // 1.0 pF
2.4.1. Coupling capacitance Cc: 4.0 pF
2.5. Input power level for reference measurement: +0 dBm
2.5.1. Maximum input power level without destruction: +10 dBm
2.6. Out band Intermodulation
2.6.1. frequency 1, 2: fo ± 100 / 200 kHz
2.6.2. Input power level: -10 dBm
2.6.3. Intermodulation (IP3 > +25 dBm) > 70 dB down from both -10dBm input tones

3. Marking: * M70A4
   yyww

4. Environment conditions:
a. vibration: MIL-STD-810G, method 514.6 procedure I
b. shock: MIL-STD-810G, method 516.6 procedure I + IV + V

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