Specification for monolithic crystal filter:

**MQF 70.0 - 5000/16**

### 1. General

1.1. Package:

1.2. Type name: MQF 70.0-5000/16

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 ± 25.0 kHz

2.2.2. Ripple: < 1.0 dB at fo ± 20.0 kHz

2.2.3. Insertion loss: < 3.0 dB (measured on smallest attenuation in pass band)

2.3. Stop band

2.3.1. fo ± 60 kHz > 20 dB

2.3.2. fo ± 95 kHz > 40 dB

2.3.3. Alternate attenuation fo ± 910 kHz > 65 dB (except spurious)

2.4. Terminating impedance R/C (input and output): 650 Ω // 1.5 pF

2.4.1. Coupling capacitance Cc: 5.0 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 / fo ± 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:

- M70A5
- 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

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Edited by: ___________________________ date: ____________ name: ___________________________