Specification for monolithic crystal filter: **MQF 90.0-0600/02**

1. General

1.1. Package:

1.2. Type name: MQF 90.0-0600/02

1.3. Number of poles: 4

1.4. Operating temperature range: -20°C to +70°C

1.5. Storage temperature range: -30°C to +85°C

1.6. Weight: 31g ± 10%

2. Electric values

2.1. Nominal centre frequency fo: 90.0 MHz

2.2. Centre frequency fc at +25°C: 90.0 MHz ± 1.5 kHz

Plate materials: Ni / Au

Ni: 4.0-8.0 µm
Au: 0.05-0.1 µm

GM 56
Base and can consist of non-magnetic material
2.2. **Pass band**

2.2.1. Bandwidth between 3 dB - frequencies:  > fc ± 3.0 kHz
2.2.2. Bandwidth between 1 dB - frequencies:  > fc ± 1.5 kHz
2.2.3. Ripple (peak to peak):  < 1.0 dB within fc ± 1.2 kHz
2.2.4. Insertion loss:  < 5.0 dB

( measured on smallest attenuation in pass band )

2.3. **Stop band**

2.3.1. fc ± 10 kHz  > 30 dB
2.3.2. fc ± 15 kHz  > 50 dB
2.3.3. fc ± 25 kHz  > 65 dB
2.3.4. Alternate attenuation (fc ± 1.0……10 MHz):  > 70 dB
2.3.5. Spurious responses:  > 40 dB

2.4. Terminating impedance (input and output):  50 Ω // 0 pF
2.5. Nominal / maximum input power level:  0 / +15 dBm

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3. **Top view**

VI YYWW serial number

MQF 90.0-0600/02

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4. Environment conditions according to Vectron MIL standard

5. Mean time between failures (MTBF) corr. to IEC 60050 (191)  > 12 years

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Edited by:  

Date: ___________________________  Name: ___________________________