1. General

1.1. Package:

1.2. Type name: MQF 70.0-0660/03

1.3. Number of poles: 8

1.4. Operating temperature range: -30°C to +75°C

1.5. Storage temperature range: -55°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 2 dB - frequencies: > fo ± 3.3 kHz

2.2.2. Pass band ripple: < 2.0 dB peak to valley

2.2.3. Group delay distortion: < 150 µs at fo ± 3.3 kHz

2.2.4. Insertion loss: < 6.0 dB (measured on smallest attenuation in pass band)

2.3. Stop band

2.3.1. fo ± 17.5 kHz > 65 dB

2.3.2. fo ± 25 kHz…… fo ± 10 MHz > 80 dB (except spurious)

2.3.3. Spurious responses: > 50 dB

2.4. Terminating impedance (input and output): 50 Ω // 0 pF

2.5. Intermodulation

2.5.1. Input 3 rd order intercept point (IIP3): > +32dBm (out of band performance)

Test tones frequencies: fo ± 50 kHz, fo ± 100 kHz
Input power level: -10 dBm
3rd order distortion (measured at fo) > 84 dB down + insertion loss ( > 89dB at worst)

2.5.2. Input 3 rd order intercept point (IIP3): > +10dBm (in band performance)

Test tones frequencies: fo ± 2.0 kHz
Input power level: -10 dBm
3rd order distortion (measured at fo ± 6 kHz) > 40 dB down from either of the two -10 dBm input test tones

3. Marking:

manufacturer, date code
MQF 70.0-0660/03

4. Environment conditions:

Corresponding to Vectron MIL-standards and MIL - STD 202F

Edited by: ___________________________ date: ___________ name: ___________________________