Specification for monolithic crystal filter: \textbf{Q F 10.6966-0050/03}

1. General
1.1. Package:

1.2. Type name: QF 10.6966-0050/03
1.3. Number of poles: 4
1.4. Operating temperature range: -20°C to +70°C
1.5. Storage temperature range: -40°C to +85°C

2. Electric values
2.1. Nominal centre frequency \( f_0 \): 10.6966 MHz

2.2. Pass band
2.2.1. Centre frequency \( f_c \) at +25°C: 10.6966 MHz \( \pm 100 \) Hz
2.2.2. Bandwidth between -3 dB - frequencies: \( f_c \pm 250 \) Hz
2.2.3. Maximum 3-dB bandwidth: 650 Hz
2.2.4. Ripple in pass band: \( < 1.0 \) dB (peak to peak)
2.2.5. Insertion loss: \( < 3.5 \) dB

( measured on smallest attenuation in pass band )

2.3. Stop band
2.3.1. \( f_c \pm 5 \) kHz \( > 60 \) dB
2.3.2. Alternate attenuation \( > 80 \) dB (except spurious)

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

2.5. Maximum input power level: +10 / +20 (working / non-damaged)

2.6. Intermodulation:
- Frequency 1: 10.6956 MHz
- Frequency 2: 10.6976 MHz
- Input power level at pin 1 (input): 0 dBm
- IM (IP3 > +33 dBm): \( > 66 \) dB (referred to input power level)

3. Marking:
- QF 10.6966-0050/03, date code
- OEM marking on demand

4. Environment conditions:
- Corresponding to Vectron standard CF001

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Edited by: __________________________ name: __________________________