Specification for crystal filter

QF 70.0-9000/06

1. General

1.1. Package:

1.2. Type name: QF 70.0-9000/06

1.3. Number of poles: 6

1.4. Operating temperature range: -20°C to +70°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: \( \geq f_o \pm 45 \text{ kHz} \)

2.2.2. Ripple: \( \leq 1.0 \text{ dB at } f_o \pm 30.0 \text{ kHz} \)

2.2.3. Differential group delay:
- \( \leq 3.0 \mu s \text{ at } f_o \pm 22.5 \text{ kHz} \)
- \( \leq 25.0 \mu s \text{ at } f_o \pm 45.0 \text{ kHz} \)

2.2.3. Insertion loss: \( \leq 6.0 \text{ dB} \)

( measured on smallest attenuation in pass band )

2.3. Stop band

2.3.1. \( f_o \pm 90 \text{ kHz} \) \( \geq 40 \text{ dB} \)

2.3.2. \( f_o \pm 150 \text{ kHz} \) \( \geq 50 \text{ dB} \)

2.3.3. Alternate attenuation \( \geq 70 \text{ dB} \) ( except spurious )

2.3.4. Spurious responses \( \geq 50 \)

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

2.5. Maximum input power level without damage: +10 dBm

3. Marking:

manufacturer, date code

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4. Environment conditions:

Corresponding to Vectron standard CF001

Edited by: ___________________________ date: ___________________________ name: ___________________________