Specification for crystal filter: **QF 4.3-0210/06**

1. General
1.1. Package:

![Crystal filter diagram]

1.2. Type name: QF 4.3-0210/06
1.3. Number of poles: 6
1.4. Operating temperature range (OTR): -55°C to +85°C
1.5. Storage temperature range: -55°C to +85°C

2. Electric values
2.1. Nominal centre frequency (fo): 4.3 MHz
2.2. Pass band
2.2.1. Bandwidth between 3 dB frequencies: > fc ± 1.15 kHz
2.2.2. Centre frequency measured between 3 dB frequencies (fc)
   - at +25°C: 4.3 MHz ±50 Hz
   - in OTR: 4.3 MHz ±100 Hz
2.2.3. Ripple in pass band
   - at fc ± 700 Hz: < 0.5 dB
   - at fc ± 1.05 kHz: < 1.0 dB
2.2.4. Differential group delay
   - at fc ± 160 Hz: < 150 µs
   - at fc ± 400 Hz: < 350 µs
   - at fc ± 1.1 kHz: < 800 µs
2.2.5. Insertion loss at fo: < 3.0 dB
2.3. Stop band

2.3.1. \( fc \pm 1.4 \text{ kHz} \): > 6 dB

2.3.2. \( fc \pm 6.35 \text{ kHz} \cdots \pm 50 \text{ kHz} \): > 83 dB

2.3.3. Alternate attenuation: > 83 dB (except spurious)

2.3.4. Spurious responses: > 70 dB at \( fo+50 \text{ kHz} \cdots +15 \text{ MHz} \)

2.4. Terminating impedance (input and output): 1400 \( \Omega \) // 5.0 \( \text{pF} \)

2.5. 3rd order intercept point (IP3, Inband and out band): > +10 dBm
- test tones for out band IP3 at \( fo \pm 30 \text{ kHz} \) and \( fo \pm 60 \text{ kHz} \)
- test tones for in band IP3 at \( fo \pm 1.0 \text{ kHz} \)
- input power level at 0 dBm

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

2.6.1. Input power level for reference measurements: 0 dBm

3. Marking:

![Top view diagram]

4. Environment conditions: Corresponding to VECTRON MIL-standard

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Edited by: ___________________________ date: ___________________________ name: ___________________________