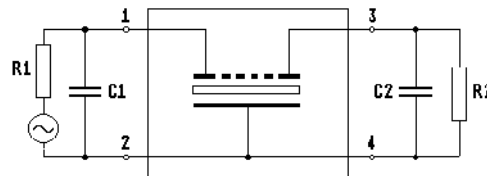
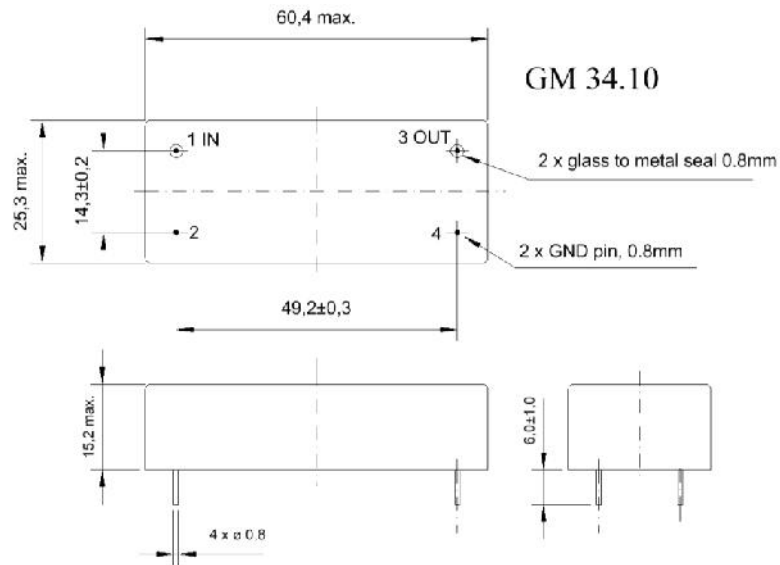


Specification for crystal filter: **QF 4.3 - 0210 / 06**

1. General

1.1. Package:



- | | |
|---|----------------|
| 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. $f_c \pm 1.4$ kHz: > 6 dB
- 2.3.2. $f_c \pm 6.35$ kHz.....= 50 kHz: > 83 dB
- 2.3.3. Alternate attenuation: > 83 dB (except spurious)
- 2.3.4. Spurious responses: > 70 dB at f_o+50 kHz.....+15 MHz

2.4. Terminating impedance (input and output): 1400 Ω // 5.0 pF

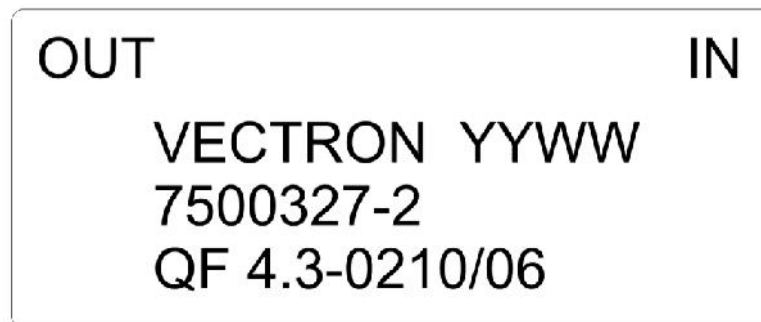
2.5. 3-rd order intercept point (IP3, Inband and out band): > +10 dBm
- test tones for out band IP3 at $f_o \pm 30$ kHz and $f_o = 60$ kHz
- test tones for in band IP3 at $f_o \pm 1.0$ kHz
- input power level at 0 dBm

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

2.6.1. Input power level for reference measurements: 0 dBm

3. Marking:

top view



4. Environment conditions: Corresponding to VECTRON MIL-standard

Edited by: _____ date: _____ name: _____