

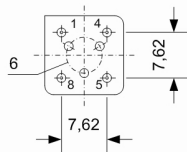
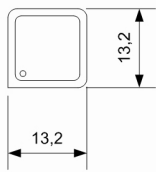
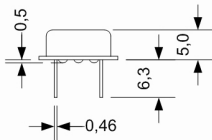


Specification: QTXTH04

Oszillator: VCTCXO

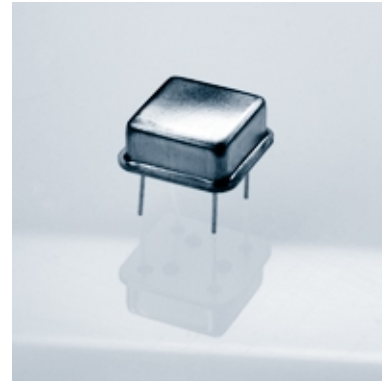
### Enclosure

DIL 8



### PIN CONNECTIONS

- 1 NC
- 4 GND
- 5 RF Output
- 8 V<sub>DD</sub>



| PARAMETER                                | MIN   | TYP      | MAX             | UNIT    | NOTE                                 |
|--|-------|----------|-----------------|---------|--------------------------------------|
| Frequency range                          | 10    |          | 40              | MHz     | <sup>1)</sup>                        |
| Frequency stability                      |       |          |                 |         |                                      |
| Nominal tolerance                        |       | ± 3      |                 | ppm     | V <sub>c</sub> = V <sub>dd</sub> / 2 |
| vs. temperature in operating temp. range |       | ± 1      |                 | ppm     | <sup>2)</sup>                        |
| vs. supply voltage                       |       |          | ± 0.2           | ppm     |                                      |
| vs. load change                          |       |          | ± 0.2           | ppm     |                                      |
| aging                                    |       |          | < ±1            | ppm     | + 25°C, 1 <sup>st</sup> year         |
| Frequency adjustment                     |       |          |                 |         |                                      |
| Voltage control sensitivity              | 7     |          | 15              | ppm / V |                                      |
| Voltage control range                    | 0     |          | V <sub>DD</sub> | V       |                                      |
| Slope (Δf / ΔVc)                         |       | positive |                 |         |                                      |
| Supply voltage V <sub>DD</sub>           |       | 3.3      |                 | V       |                                      |
| Current consumption                      |       | 6        |                 | mA      | <sup>1)</sup>                        |
| RF output                                |       |          |                 |         |                                      |
| Signal waveform                          |       | HCMOS    |                 |         |                                      |
| load                                     |       | 10       |                 | pF      |                                      |
| duty cycle                               |       | 45 - 55  |                 | %       |                                      |
| rise / fall time                         |       | 3        |                 | ns      |                                      |
| start-up time                            |       | 2        |                 | ms      |                                      |
| Operating temperature range              | - 40  |          | + 85            | °C      |                                      |
| Storage temperature range                | - 45  |          | + 120           | °C      |                                      |
| Phase noise                              |       | < - 120  |                 | dBc/Hz  | at 100 Hz                            |
| Enclosure                                | DIL-8 |          |                 |         | (see drawing)                        |
| ESD rating (HBM)                         |       |          | 2               | kV      |                                      |

Note: <sup>1)</sup> f<sub>min</sub> = 5.0 Mhz, divider f<sub>0</sub> / 2

<sup>2)</sup> df<sub>0</sub> = ± 0.3 ppm at temperature range + 10 ... + 50°C