

Features

- Analog Temperature Compensation

| STANDARD SPECIFICATIONS | |
|--|---------------------------------------|
| PARAMETERS | MAX (Unless otherwise noted) |
| Frequency Range (MHz) | 16 ~ 52.000 |
| Temperature Range | |
| Operating (T_{OPR}) | (See table below) |
| Storage (T_{STG}) | -40°C ~ +85°C |
| Supply Voltage (V_{DD}) ($\pm 5\%$) | 1.8V; 2.5V; 2.7V; 2.8V; 3.0V; 3.3V |
| Input Current (I_{DD}) | 2.0 mA |
| Initial Frequency Tolerance @ 25°C (after reflow) $V_c = 0.5V_{DD}$ | ± 2.0 PPM |
| Frequency Stability | |
| Over Temperature Range | ± 0.5 PPM |
| Over Supply Voltage Change ($V_{DD} \pm 5\%$) | ± 0.3 PPM |
| Over Load Change [10k Ω //10pF]+-10% | ± 0.3 PPM |
| Output Voltage Level | 0.8V _{p-p} min |
| Output Load | [10k Ω //10pF]+-10% |
| Pullability | |
| $V_c = 0.5V_{DD} \pm 0.5V_{DD}$ | ± 5 PPM min |
| Aging per year | ± 1.0 PPM |
| Startup Time (T_s) | 3.0 mS |
| Phase Noise (@ 1kHz offset) | -130 dBc/Hz Typical |
| Reflow Soldering Temp | 260°C / 10 Seconds x 2 |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Au over Ni |
| Lead-Free | Yes |
| RoHS/REACH Compliant | Yes |

| DIMENSIONS / MECHANICAL SPECIFICATIONS | | | | | | |
|--|--------|--|-------|--------|--------|--------|
| <p>Top View: 3.2±0.15 mm width, 2.5±0.15 mm height. Pins #1, #2, #3, #4.</p> <p>Side View: 1.0 max mm height.</p> <p>Bottom View: Pin #1 width 0.60 mm, pin #2 width 0.6 mm, pin #3 width 0.85 mm, pin #4 width 0.60 mm. Total width 1.8 mm.</p> | | | | | | |
| <p>Recommended Solder Pad Layout</p> <p>Dimensions in mm</p> <p>Pin Connections</p> <table border="1"> <thead> <tr> <th colspan="2">VCTCXO</th> </tr> </thead> <tbody> <tr> <td>#1 Vc</td> <td>#3 Out</td> </tr> <tr> <td>#2 GND</td> <td>#4 VDD</td> </tr> </tbody> </table> | VCTCXO | | #1 Vc | #3 Out | #2 GND | #4 VDD |
| VCTCXO | | | | | | |
| #1 Vc | #3 Out | | | | | |
| #2 GND | #4 VDD | | | | | |
| <p>A DC-Cut capacitor (1000pF) should be connected to the output.</p> | | | | | | |

¹For proper operation, a control voltage (V_c) must be applied to pin 1 of VCTCXO's. All specifications subject to change without notice.

FT3GV

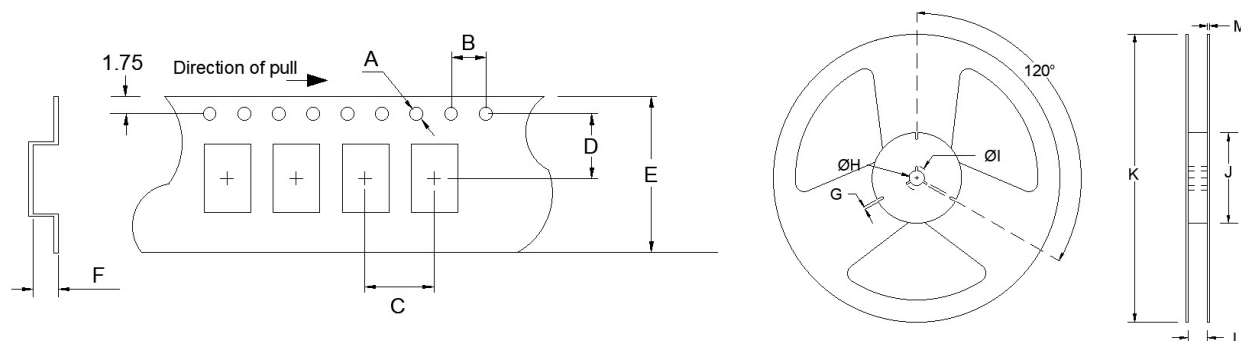
(Former FOX923_GP)

3.2mm x 2.5mm

CSW GPS VCTCXO



| TAPE SPECIFICATIONS (mm) | | | | | | REEL SPECIFICATIONS (mm) | | | | | | | |
|--------------------------|-----|-----|-----|-----|-----|---|-----|-----|-----|-----|------|-----|-----|
| A | B | C | D | E | F | REEL QTY | G | H | I | J | K | L | M |
| ø1.5 | 4.0 | 4.0 | 3.5 | 8.0 | 1.4 | -T3 = 3,000 Default -T2 = 2,000 -T1 = 1,000 | 2.0 | ø13 | ø21 | ø60 | ø180 | 9.0 | 1.5 |



Available Options & Part Identification for VCTCXO Model T3GV¹

Sample PN: FT3GVUPK26.0-T3

| F | T3GV | D | U | K | 26.0 | -T3 |
|------------|--------------------------------------|---|----------------------------------|--|------------------------|---|
| <u>Fox</u> | <u>Model Number</u> T3GV = VCTCXO | <u>Voltage</u> B = +3.3V±5% D = +3.0V±5% Q = +2.8V±5% S = +2.7V±5% H = +2.5V±5% L = +1.8V±10% | <u>Stability</u> U = ±0.5 PPM | <u>Operating Temperature</u> K = -30 to +85°C | <u>Frequency (MHz)</u> | <u>Values Added Options</u> Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs T3 = 3,000 pcs |

¹ Not all frequencies in the frequency range available.

Reliability Test Conditions

Please contact Abracon Quality Assurance department