

| ELECTRICAL CHARACTERISTICS | |
|---|--|
| PARAMETERS | MAX (Unless otherwise noted) |
| Storage Temperature Range | -55°C ~ +125°C |
| Frequency Stability Overall (including 20 years aging) ¹ | ±4.6PPM |
| Supply Voltage (V _{DD}) | 3.3V ± 5% |
| Input Current (I _{DD}) | 6 mA |
| Rise Time (10% ~ 90% V _{DD}) (T _R) | 5nS |
| Fall Time (90% ~ 10% V _{DD}) (T _F) | 5nS |
| Output Symmetry (50% V _{DD}) | 45% ~ 55% |
| Output Voltage (HCMOS) Output Low (V _{OL}) Output High (V _{OH}) | 10%V _{DD} 90%V _{DD} Min |
| Output Current (I _{OL}) (I _{OH}) | 6mA Min -6mA Min |
| Output Load | 15pF Nom |
| Start-up Time (T _S) | 2 mS |
| Pull ability (VCTCXO) (V _c = 1.65±1.65V) ² | ±5PPM Min |
| Phase Noise (12.8 MHz) @100Hz @1kHz @10kHz | -120dBc Typ. -140dBc Typ. -148dBc Typ. |
| Maximum Soldering Temp / Time | 260°C / 10 Seconds |
| Moisture Sensitivity Level (MSL) | 1 |
| Termination Finish | Au |

| ENABLE / DISABLE FUNCTION | |
|--|----------------|
| (Pin 9) | Output (pin 6) |
| OPEN ¹ | Active |
| '1' Level V _{IH} ≥ 70%V _{DD} | Active |
| '0' Level V _{IL} ≤ | High Z |

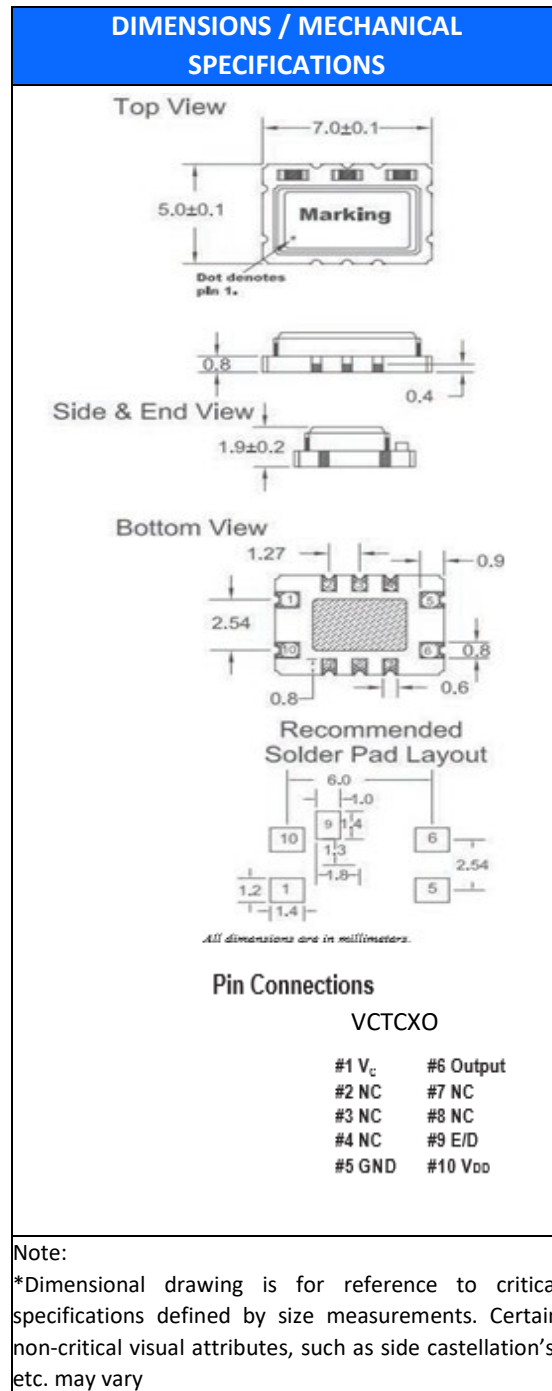
| AVAILABLE FREQUENCIES | | |
|-----------------------|-----------|-----------|
| 10.000MHz | 12.800MHz | 16.384MHz |
| 19.200MHz | 19.440MHz | 20.000MHz |
| 26.000MHz | 27.000MHz | 40.000MHz |

¹ Inclusive of initial frequency tolerance, operating temperature range, 20 years aging, input voltage change, load change, shock and vibration.

² For proper operation, a control voltage (V_c) must be applied to pin 1 on VCTCXOs.

³ An internal pull up resistor from pin 9 to pin 10 allows active output if pin 9 is left open.

The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.



FT7SV

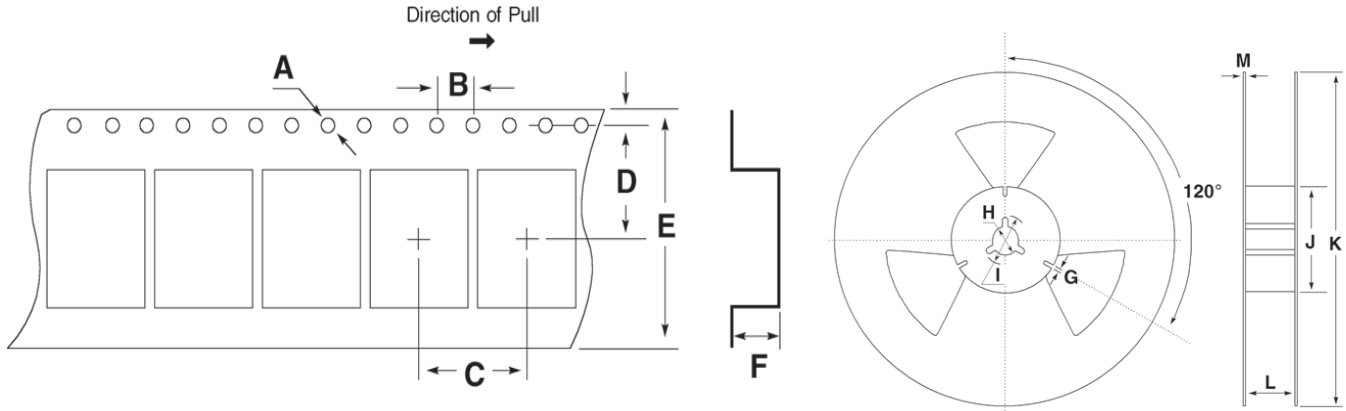
(Former FOX331 Series)

7.0mm x 5.0mm

SMD Stratum III HCMOS VCTCXO **FOX**



| TAPE SPECIFICATIONS (mm) | | | | | | | REEL SPECIFICATIONS (mm) | | | | | | | | |
|--------------------------|------|-----|-----|-----|------|------|--------------------------|-------|-----|-------|-------|--------|------|------|-----|
| MODEL | A | B | C | D | E | F | REEL QTY | MODEL | G | H | I | J | K | L | M |
| FT7SV | Ø1.5 | 4.0 | 8.0 | 7.5 | 16.0 | 2.16 | 3,000 | FT7SV | 1.5 | Ø13.5 | Ø20.2 | Ø100.0 | Ø330 | 16.4 | 2.0 |



Available Options & Part Identification for VCTCXO Model T7SV¹

Sample PN: **FT7SVBKF25.0-T3**

| F | T7SV | B | K | F | 25.0 | -T3 |
|------------|--------------------------------------|--------------------------------|--|--|------------------------|---|
| Fox | Model Number T7SV = VCTCXO | Voltage B = +3.3V±5% | Stability K = ±0.28 PPM Q = ±0.37 PPM | Operating Temperature F = -20 to +70°C M = -40 to +85°C | Frequency (MHz) | Values Added Options Blank = Bulk T3 = 3,000 pcs |

Reliability Test Conditions

Please contact Abracon Quality Assurance department