


FT9CV

(Former FOX801AELF/ FOX801BELF Series)

11.4mm x 9.6mm
Clipped Sine, VCTCXO 

FEATURES

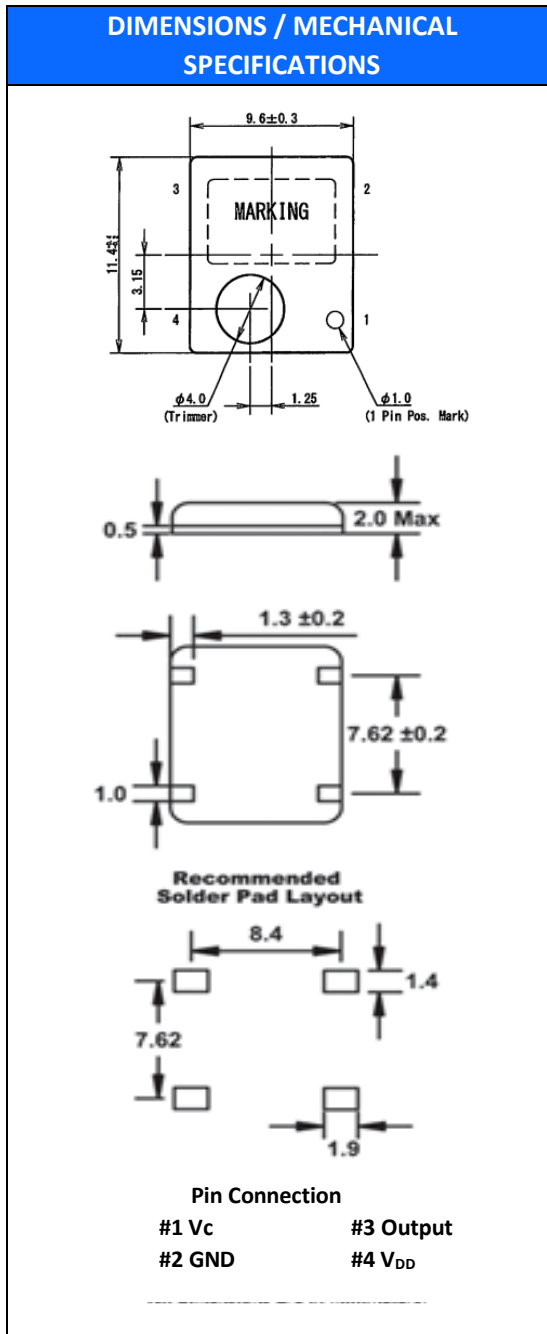
- 2.0mm Height Max
- Internal Trim
- Clipped Sine Output

Supply Voltage Options

- 5.0V
- 3.0V

| ELECTRICAL CHARACTERISTICS | |
|--|------------------------------|
| PARAMETERS | MAX (Unless otherwise noted) |
| Frequency Range (F_0) | 9.600 ~ 50.000 MHz |
| Temperature Range | |
| Operating (T_{OPR}) | -30°C ~ +75°C |
| Storage (T_{STG}) | -40°C ~ +80°C |
| Initial Frequency Tolerance (@25°C) | |
| $V_C = 1.5V$ ($V_{DD} = 3.0V$) | ±0.5PPM |
| $V_C = 2.5V$ ($V_{DD} = 5.0V$) | |
| Supply Voltage (V_{DD}) | 5.0V ± 5% 3.0V ± 5% |
| Input Current (I_{DD}) | |
| 9.600 ~ 21.999MHz | 2.0mA |
| 22.000 ~ 27.999 MHz | 3.0mA |
| 28.000 ~ 39.999 MHz | 4.0mA |
| 40.000+ ~ 50.000 MHz | 5.0mA |
| Frequency Stability | |
| Over Temperature Range | ±2.5PPM |
| Over Supply Voltage Change ($V_{DD} \pm 5\%$) | |
| 9.600 ~ 21.999 MHz | ±0.3PPM |
| 22.000 ~ 27.999 MHz | ±0.5PPM |
| 28.000 ~ 50.000 MHz | ±1.0PPM |
| Overload Change (10KΩ ± 10% // 10pF ± 10%) | ±0.3PPM |
| Output Waveform (Clipped Sine) | |
| Peak to Peak Level (V_{p-p}) | |
| 5.0V Version: 9.600 ~ 15.999 MHz | 1.0V Min |
| 5.0V Version: 16.000 ~ 50.000 MHz | 0.8V Min |
| 3.0V Version: 9.600 ~ 15.999 MHz | 0.8V Min |
| 3.0V Version: 16.000 ~ 50.000 MHz | 0.7V Min |
| Output Load | 10KΩ // 10pF ±10% |
| Frequency Adjustment (Internal Trimmer) | ±3.0PPM Min |
| Voltage Control Option (VCTCXO) ¹ (@25°C) | ±5.0PPM Min |
| ($V_C = 1.5 \pm 1.0V$, $V_{DD} = 3.0V$) | |
| ($V_C = 2.5 \pm 1.0V$, $V_{DD} = 5.0V$) | |
| Aging per year | 1.0PPM |

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

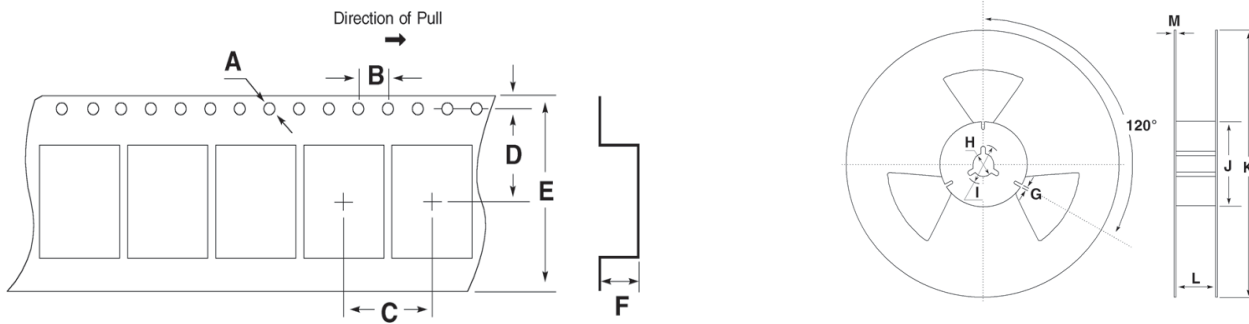


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11.4mm x 9.6mm
Clipped Sine, VCTCXO **FOX**

| 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 | 12.0 | 11.5 | 24.0 | 2.7 | T1= 1,000 T2= 2,000 | 2.0 | Ø13 | Ø21 | Ø80 | Ø330 | 25.5 | 1.6 |



Note 1: Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available

| Available Options & Part Identification for VCTCXO Model FT9CV ¹ | | | | | | |
|---|--------------------------------------|--|----------------------------------|--|------------------------|---|
| Sample PN: <u>FT9CVDPH25.0-T1</u> | | | | | | |
| F | T9CV | D | P | H | 25.0 | -T1 |
| <u>Fox</u> | <u>Model Number</u> T9CV = VCTCXO | <u>Voltage</u> D = +3V±5% P = +5V±5% | <u>Stability</u> P = ±2.5 PPM | <u>Operating Temperature</u> H = -30 to +75°C | <u>Frequency (MHz)</u> | <u>Values Added Options</u> Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs |

| Reliability Test Conditions |
|---|
| Please contact Abracon Quality Assurance department |