

3.3V Ultra Miniature SMD HCMOS TCXO/VCTCXO



Model: FOX923CH SERIES

RoHS Compliant / Pb Free

Rev. 9/26/2013

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FEATURES

- 3.3V Operation
- 1.2 mm Max Height
- HCMOS Output
- Tape and Reel (3,000 pcs. STD)

OPTIONS

- Voltage Control (FOX923CEH)

• PART NUMBER SELECTION

Part Number	Model Number	Frequency Stability	Operating Temp	Frequency Range (MHz)
673CH-Frequency-xxxxx	FOX923CH	See Table	-30 ~ +85°C	9.000 ~ 40.000
638CH-Frequency-xxxxx	FOX923CEH	See Table	-30 ~ +85°C	9.000 ~ 40.000

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	9.000 ~ 40.000 MHz
Temperature Range	
Operating (TOPR)	-30°C ~ +85°C
Storage (TSTG)	-40°C ~ +90°C
Supply Voltage (VDD)	+3.3 VDC ±5%
Input Current (IDD)	6.0mA
Initial Frequency Tolerance @ 25°C (after 2 reflows) (FOX923CEH: Vc = 1.65VDD) ¹	±1.5 PPM
Frequency Stability	
Over Temperature Range	±2.5 PPM
Over Supply Voltage Change (3.3V ± 5%)	±0.3 PPM
Over Load Change (15pF) ±5%	±0.2 PPM
Rise Time (10% ~ 90% VDD)	5nS
Fall Time (90% ~ 10% VDD)	5nS
Symmetry (50% VDD)	40% ~ 60%
Output Voltage (VOL)	10% VDD
(VOH)	90% VDD MIN
Output Load (CL)	15pF
Pullability (FOX923CEH: Vc = 1.65V ±1.0V) ¹	±5 ~ ±15PPM
Aging per year	±1.0 PPM
Startup Time (Ts)	3mS
Phase Noise	
@ 10Hz offset	-85 dBc/Hz Typical
@ 100Hz Offset	-115 dBc/Hz Typical
@ 1kHz Offset	-135 dBc/Hz Typical
@ 10kHz Offset	-145 dBc/Hz Typical
Reflow Soldering Temp	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

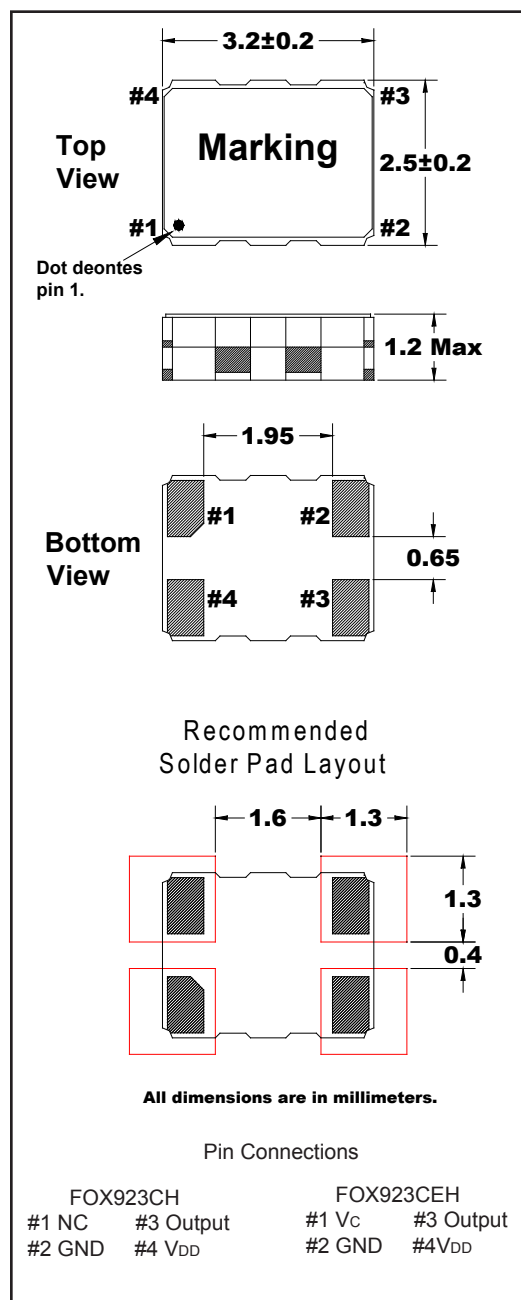
¹For proper operation, a control Voltage (Vc) must be applied to pin 1 on VCTCXO's.

²Does not imply a stocked part

All specifications subject to change without notice.

• STANDARD FREQUENCIES²

10.000 MHz	12.288 MHz	12.800 MHz
13.000 MHz	16.384 MHz	19.200 MHz
20.000 MHz	26.000 MHz	32.768 MHz



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• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
FOX923CH	Ø1.5	4.0	4.0	3.5	8.0	1.4	3,000

• REEL SPECIFICATIONS (millimeters)							
MODEL	G	H	I	J	K	L	M
FOX923CH	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.5

