

SMD TCXO/VCTCXO for GPS Applications



Model: FOX923_-GP SERIES RoHS Compliant / Pb Free

Rev. 6/21/2011

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FEATURES

- 0.5PPM Stability
- Supply Voltages of 1.8V ~ 3.3V
- 1.2 mm Max Height
- Clipped SINE Output
- Tape and Reel (3,000 pcs. STD)

OPTIONS

- Voltage Control

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• PART NUMBER SELECTION [Learn More](#) - Internet Required

Part Number	Model Number	Supply Voltage (V _{DD})	TCXO/VCTCXO
673CGP-Frequency-xxxxx	FOX923C-GP	3.3V ±5%	TCXO
638CGP-Frequency-xxxxx	FOX923CE-GP	3.3V ±5%	VCTCXO
673GP-Frequency-xxxxx	FOX923B-GP	3.0V ±5%	TCXO
638GP-Frequency-xxxxx	FOX923E-GP	3.0V ±5%	VCTCXO
673DGP-Frequency-xxxxx	FOX923D-GP	2.8V ±5%	TCXO
638DGP-Frequency-xxxxx	FOX923DE-GP	2.8V ±5%	VCTCXO
673FGP-Frequency-xxxxx	FOX923F-GP	2.7V ±5%	TCXO
638FGP-Frequency-xxxxx	FOX923FE-GP	2.7V ±5%	VCTCXO
673GGP-Frequency-xxxxx	FOX923G-GP	2.5V ±5%	TCXO
638GGP-Frequency-xxxxx	FOX923GE-GP	2.5V ±5%	VCTCXO
673LGP-Frequency-xxxxx	FOX923L-GP	1.8V ±5%	TCXO
638LGP-Frequency-xxxxx	FOX923LE-GP	1.8V ±5%	VCTCXO

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (F _o)	See Table Below
Temperature Range	
Operating (T _{OPR})	-30°C ~ +85°C
Storage (T _{STG})	-40°C ~ +90°C
Supply Voltage (V _{DD})	1.8V ~ 3.3V
Input Current (I _{DD})	2.0mA
Initial Frequency Tolerance @ 25°C (after 2 reflows) (VCTCXO: V _C = 0.5V _{DD}) ¹	±2.0 PPM
Frequency Stability	
Over Temperature Range	±0.5 PPM
Over Supply Voltage Change (V _{DD} ± 5%)	±0.3 PPM
Over Load Change (10KΩ ±10% // 10pF ±10%)	±0.2 PPM
Output Waveform (Clipped Sine)	
Peak-to-Peak Level (V _{p-p})	0.8V Min
Output Load	10KΩ ±10% // 10pF ±10%
Pullability	
V _{DD} = 2.5V~3.3V, V _C = 50% V _{DD} ±1.0V	±5 ~ ±15PPM
V _{DD} = 1.8V, V _C = 0.9V ±0.6V	±3 ~ ±5PPM
Aging per year	±1.0PPM
Phase Noise (26.000MHz, @ 10kHz offset)	-145 dBc/Hz Typical
Reflow Soldering Temp	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

• STANDARD FREQUENCIES^{2&3}

13.000MHz	16.367 MHz	16.3676 MHz	16.367667 MHz
16.367677 MHz	16.368 MHz	16.369 MHz	16.800 MHz
19.200 MHz	23.104 MHz	24.5535 MHz	26.000 MHz
27.456 MHz			

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

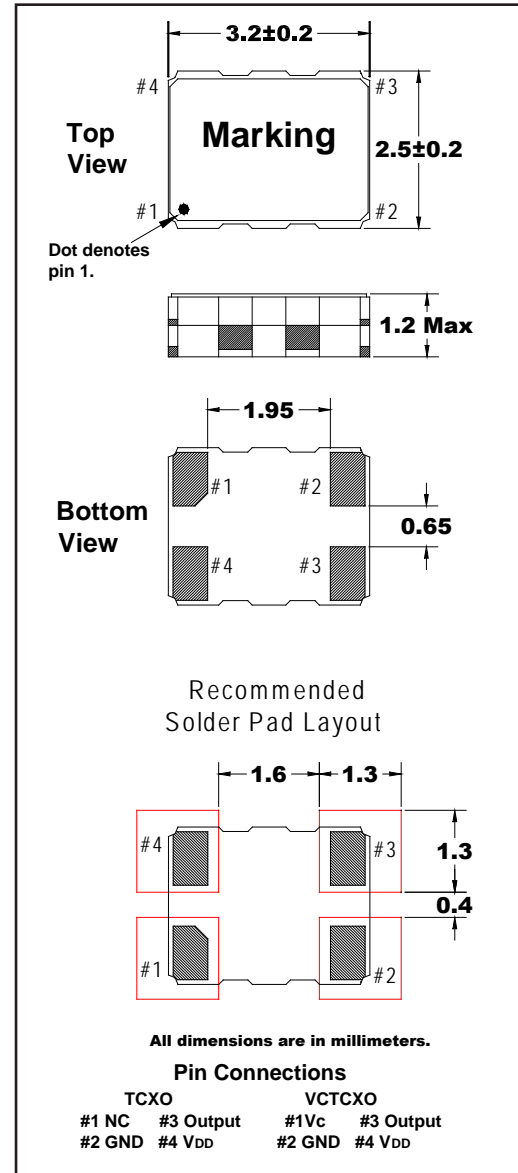
²Does not imply a stocked part. All frequencies may not be available for all V_{DD}.

³Other frequencies may be available. Contact Fox Technical support with your requirements.

*Dimensional drawing is for reference to critical specifications defined by size measurements.

Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary.

All specifications subject to change without notice.



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• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
FOX923_-GP	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
FOX923_-GP	2.0	Ø13	Ø21	Ø60	Ø180	9.0	1.5

