

1.8V ~ 3.3V SMD TCXO for GPS Applications



Model: FOX922-GP SERIES RoHS Compliant / Pb Free

Rev. 5/13/2016

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FEATURES

- 0.5PPM Stability
- Supply Voltages of 1.8V ~ 3.3V
- 1.0mm Height Max
- Clipped Sine Output

• PART NUMBER SELECTION

Part Number	Model Number	Supply Voltage(V _{DD})	TCXO/VCTCXO
839CGP-Frequency-xxxxx	FOX922C-GP	3.3V±5%	TCXO
840CGP-Frequency-xxxxx	FOX922CE-GP	3.3V±5%	VCTCXO
839BGP-Frequency-xxxxx	FOX922B-GP	3.0V±5%	TCXO
840BGP-Frequency-xxxxx	FOX922BE-GP	3.0V±5%	VCTCXO
839DGP-Frequency-xxxxx	FOX922D-GP	2.8V±5%	TCXO
840DGP-Frequency-xxxxx	FOX922DE-GP	2.8V±5%	VCTCXO
839FGP-Frequency-xxxxx	FOX922F-GP	2.7V±5%	TCXO
840FGP-Frequency-xxxxx	FOX922FE-GP	2.7V±5%	VCTCXO
839GGP-Frequency-xxxxx	FOX922G-GP	2.5V±5%	TCXO
840GGP-Frequency-xxxxx	FOX922GE-GP	2.5V±5%	VCTCXO
839LGP-Frequency-xxxxx	FOX922L-GP	1.8V±5%	TCXO
840LGP-Frequency-xxxxx	FOX922LE-GP	1.8V±5%	VCTCXO

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Available Frequencies (F ₀)	See Table Below
Temperature Range	
Operating (T _{OPR})	-30°C ~ +85°C
Storage (T _{STG})	-40°C ~ +85°C
Supply Voltage (V _{DD})	1.8V ~ 3.3V
Input Current (I _{DD}) V _{DD} =1.8V ~ 3.0V	2.0mA
Initial Frequency Tolerance @ 25°C (after 2 reflows) (VCTCXO: V _C = 50% V _{DD}) ¹	±2.0PPM
Frequency Stability	
Over Temperature Range	±0.5PPM
Over Supply Voltage Change (V _{DD} ±5%)	±0.2PPM
Over Load Change (10KΩ //10pF) ±10%	±0.2PPM
Output Waveform (Clipped Sine)	
Peak-to-Peak Level (V _{p-p})	0.8V Min.
Output Load	(10KΩ //10pF) ±10%
Pullability (VCTCXO)	
V _{DD} = 2.5V~3.3V, V _C = 50% V _{DD} ±1.0V	±3 ~ ±5 PPM
V _{DD} = 1.8V, V _C = 0.9±0.6V	
Aging per year	±1.0 PPM
Phase Noise (16.369 MHz, @ 10kHz offset)	-145 dBc/Hz Typ.
Reflow Soldering Temp	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

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}.

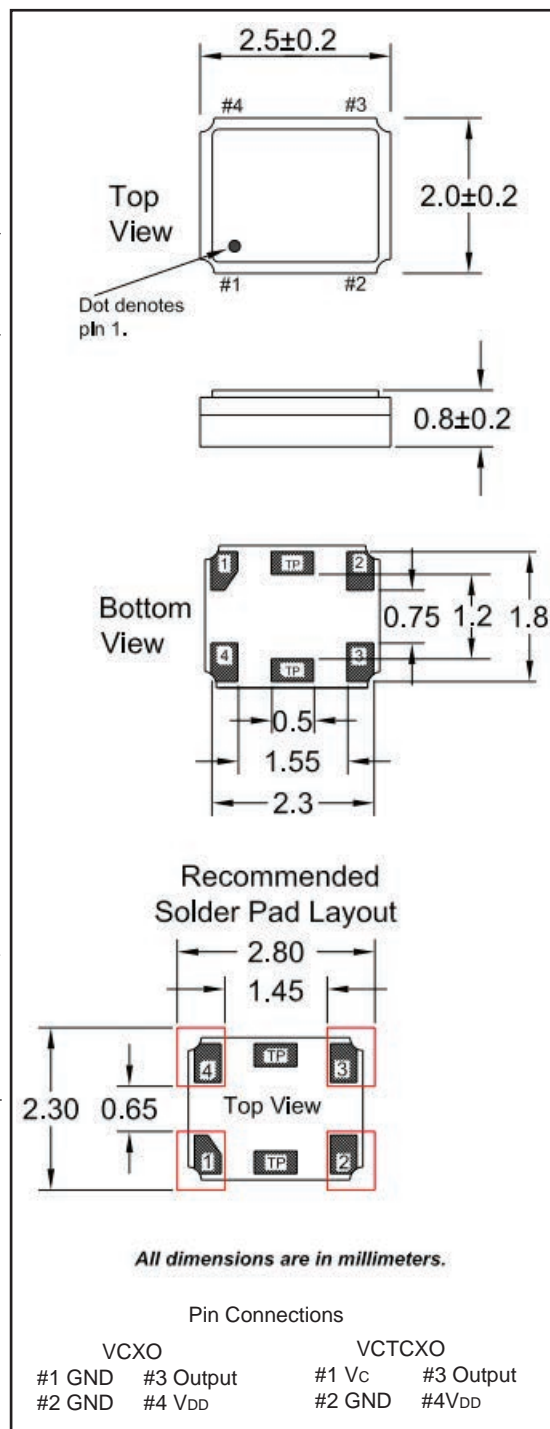
³Other frequencies may be available. Contact Fox Technical support with your requirements.

*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.

• STANDARD FREQUENCIES^{2&3}

16.367667 MHz	16.368 MHz	16.369 MHz
16.800 MHz	19.200 MHz	24.5535 MHz
26.000 MHz	27.456 MHz	33.600 MHz
38.400 MHz		



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• TAPE SPECIFICATIONS (millimeters)							
MODEL	A	B	C	D	E	F	STD Reel QTY
FOX922-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
FOX922-GP	2.0	Ø13	Ø21	Ø60	Ø180	9.0	2.0

