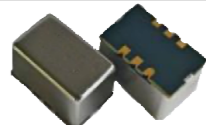


Features	Applications
• Ultra Stable • Wide Temperature Range • SMD (14.0mm*9.0mm)	• Base Stations • Instrumentations • Others 

FO0914A Specifications

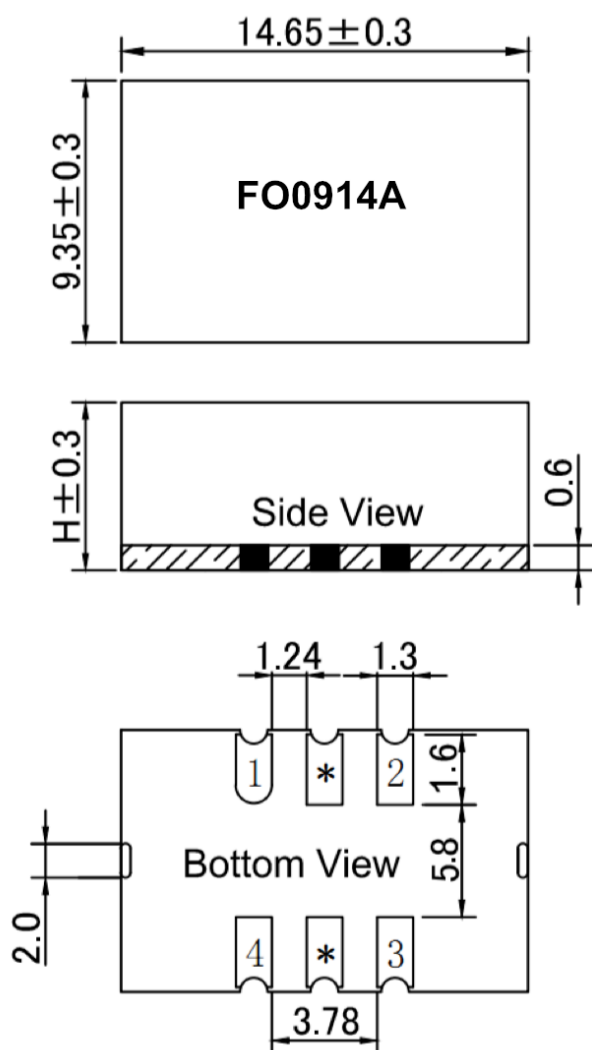
Parameter		Value			Unit	Conditions
		Min	Typ	Max		
Supply Voltage		—	3.3	—	V	Vcc±5%
		—	5.0	—	V	Vcc±5%
Power Consumption		—	—	600	mA	
		—	—	250	mA	
Frequency Range		10~100			MHz	
Nominal Frequency		10, 20, 40, 50			MHz	
Initial Frequency Tolerance		—	—	±300	ppb	At shipment, nominal EFC, +25°C
Freq. Stability Vs. Temp.		±20	—	±100	ppb	-20°C~+70°C
		±50	—	±200	ppb	-40°C~+85°C
		±100	—	±500	ppb	-55°C~+85°C
Sine Wave	Output Level	5	—	—	dBm	
	Harmonious	—	—	-40	dBc	
	Spurious	—	—	-70	dBc	
	Load	—	50	—	Ω	
HCMOS	VOH	2.4	—	—	V	HCMOS Output, Load=15pf
	VOL	—	—	0.4	V	HCMOS Output, Load=15pf
	Duty Cycle	45	—	55	%	(VOH - VOL)/2
	Rise/Fall edge	—	—	6	ns	HCMOS Output, Load=15pf
	Load	—	15	—	pf	
Short-term Stability @100MHz		—	—	5x10-11	ppb/s	After 60 mins of operation
Supply Sensitivity		—	—	±5.0	ppb	Vcc±5%
Load Sensitivity		—	—	±5.0		Load±5%
Aging per Day		—	—	±1.0		After 30 days of operation
Aging per Year		—	—	±100		After 30 days of operation
SSB Phase Noise @10MHz	Offset 10Hz	—	—	-110	dBc/Hz	At +25°C
	Offset 100Hz	—	—	-130		
	Offset 1kHz	—	—	-155		
	Offset 10kHz	—	—	-160		
	Offset 100kHz	—	—	-165		

Parameter	Value			Unit	Conditions
	Min	Typ	Max		
Control Voltage Range	0	–	3		V _{cc} : 3.3V
	0	–	5	V	V _{cc} : 5V
Frequency Tuning Range	±0.5	–	±2	ppm	
Tuning Slope	Positive				

Environmental Conditions

Operating Temperature Range	-55°C~+85°C
Storage Temperature Range	-60°C~+110°C

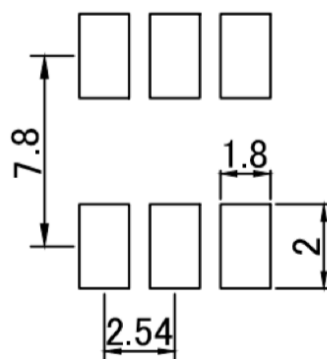
Outline Dimension & Pin Connections



Pin Connections

Pin1	Nc/Vc
Pin2	GND
Pin3	Fout
Pin4	Vcc
Pin*	NC

Recommended Land Pattern



Size in mm.

Reliability

Temperature Stress Test	IEC60068, GJB360B
Mechanical Stress Test	IEC60068, GJB360B
EMC Test (ESD)	IEC61000, JESD22
Solder Ability	EIA/JESD22-B102-C
RoHS	RoHS Directive 2011/65/EU Annex II Recasting 2002/95/EC

Ordering Guide

FO **0914** **A** **X** **X** **X** **XXX** **X** **X** **XX.XX**
 (1) (2) (3) (4) (5) (6) (7) (8) (9) (10)

(1) Product:
OCXO

(2) Outline:
9.3 x14.6(mm)

(3) Package Type:
A: Package A

(4) Output Wave:
H: CMOS S: Sine Wave

(5) Supply Voltage:
5: 5.0 Vdc 3: 3.3 Vdc

(6) Working Temp.:
C: -20°C~+70°C G: -40°C~+70°C
I: -40°C~+85°C J: -55°C~+85°C

(10) Frequency:
xx MHz

(9) Tuning:
N: No Tuning E: $\geq \pm 500$ ppb
D: $\geq \pm 1000$ ppb

(8) Phase Noise:
G: -145dBc/Hz@1kHz H: -150dBc/Hz@1kHz
J: -155dBc/Hz@1kHz

(7) Stability:
107: ± 100 ppb 508: ± 50 ppb 208: ± 20 ppb

Example: FO0914AH5C107DN10

Disclaimer

FCD-Tech B.V. reserves the right to make changes to the product(s) and/or information contained herein without notice. No liability is assumed as a result of their use or application. No rights under any patent accompany the sale of any such product(s) or information.