

ELECTRICAL CHARACTERISTICS	
PARAMETERS	MAX (Unless otherwise noted)
Frequency Range (Fo)	13.5 ~ 160 MHz
Frequency Stability	(See options below)
Temperature Range	
Operating (T <sub>OPR</sub> )	(See options below)
Storage (T <sub>STG</sub> )	-55°C ~ +125°C
Supply Voltage (V <sub>DD</sub> )	3.3V ±5%
Input Current (I <sub>DD</sub> )	40 mA
Standby Current	10µA
Output Symmetry (50% V <sub>OPP</sub> )	45% ~ 55%
Rise/Fall Time (20%/80% V <sub>PP</sub> Levels) (T <sub>R</sub> /T <sub>F</sub> )	
13.500 ~ 100.000 MHz	1.0 Ns
100.000+ ~ 160.000 MHz	0.7 nS
Output Swing (V <sub>OPP</sub> )	0.65V Min
Output Voltage (V <sub>OL</sub> )	-0.15 ~ 0.15V
(V <sub>OH</sub> )	0.55 ~ 0.85V
Output Load	50 Ohms to GND
Start-up Time (T <sub>S</sub> )	10 mS
Output Disable Time <sup>1</sup>	200 nS
Output Enable Time <sup>1</sup>	10 mS
Aging (per year @ 25C)	±3 PPM
Phase Jitter (12kHz~20MHz)	1 pS

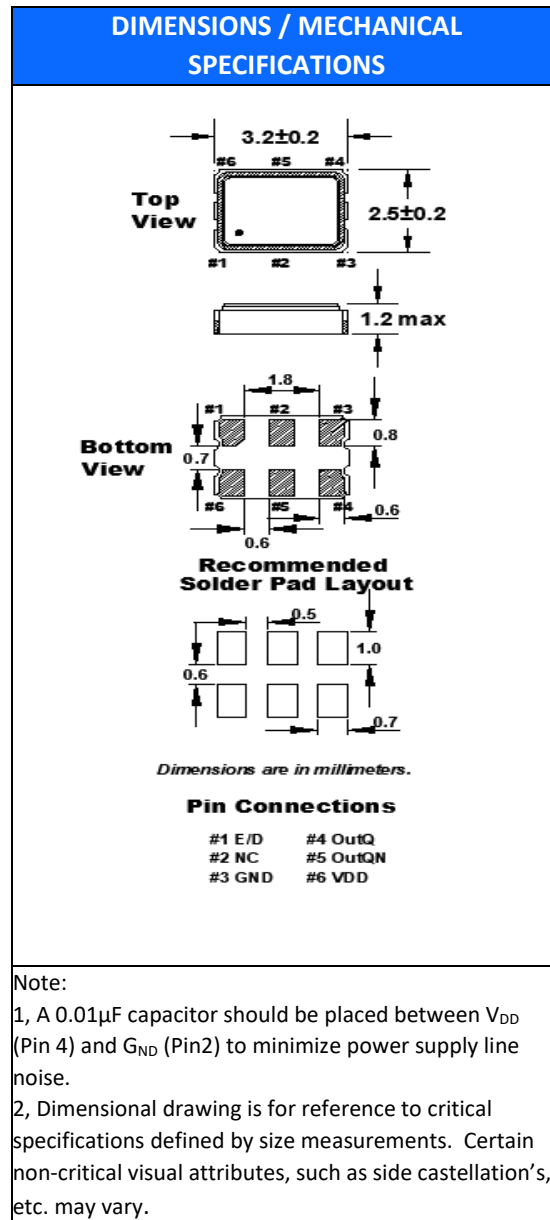
ENABLE / DISABLE FUNCTION <sup>1</sup>	
Pin1	Out 1 (pin 4), Out 2 (pin 5)
OPEN <sup>1</sup>	Active
'1' Level V <sub>IH</sub> ≥ 80%V <sub>DD</sub>	Active
'0' Level V <sub>IL</sub> ≤ 20%V <sub>DD</sub>	High Z

Available Options by Stability & Operating Temp		
Frequency Stability	Operating Temperature (°C)	Frequency Range (MHz)
±100PPM <sup>2</sup>	-20 ~ +70	13.500 ~ 160.000
±100PPM <sup>2</sup>	-40 ~ +85	13.500 ~ 160.000
±50PPM <sup>2</sup>	-20 ~ +70	13.500 ~ 160.000
±50PPM <sup>2</sup>	-40 ~ +85	13.500 ~ 160.000
±25PPM <sup>2</sup>	-20 ~ +70	13.500 ~ 160.000
±25PPM <sup>3</sup>	-40 ~ +85	13.500 ~ 160.000

<sup>1</sup> An internal pull-up resistor from pin 1 to pin 6 allows active output if pin 1 is left open

<sup>2</sup> Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, Reflow, one-year aging, shock, and vibration.

<sup>3</sup> Inclusive of 25°C tolerance, operating temperature range.



STANDARD SPECIFICATIONS	
PARAMETERS	MAX (Unless otherwise noted)
Maximum Soldering Temp / Time	260°C / 10 Seconds x 2
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au (0.3~1µm) over Ni (1.27~8.89µm)
Seal Method	Seam
Lead (Pb) Free	Yes
RoHS /REACH Compliant	Yes

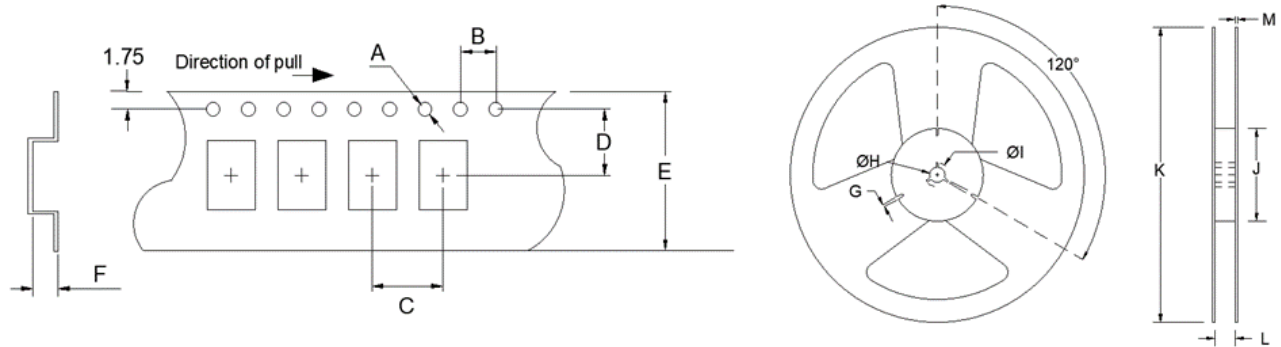
# FO3SL

(Former F300SL)

3.2mm x 2.5mm  
HCSL SMD Oscillator



TAPE SPECIFICATIONS (mm)							REEL SPECIFICATIONS (mm)						
A	B	C	D	E	F	STD REEL QTY	G	H	I	J	K	L	M
ø1.5	4.0	4.0	3.5	8.0	1.4	-T1 = 1,000 -T2 = 2,000 -T3 = 3,000	2.0	ø13	ø21	ø60	ø180	9.0	1.2



### Available Options & Part Identification for O3SL\*

Sample PN: **FO3SLCDM125.0-T3**

F	O3SL	C	D	M	125.0	-T3
<u>Fox</u>	<u>Model Number</u>	<u>Voltage</u> B = 3.3V±5%	<u>Stability</u> A = ±100PPM B = ±50PPM D = ±25PPM	<u>Operating Temperature</u> E = -10 to +70°C M = -40 to +85°C	<u>Frequency (MHz)</u>	<u>Values Added Options</u> Blank = Bulk T1 = 1,000 pcs T2 = 2,000 pcs <b>T3 = 3,000 pcs</b>

\*Not all frequencies in the frequency range, or every combination of stability, temp range, and voltage available. See stabilities and op temps for each V<sub>DD</sub>.

### Reliability Test Conditions

Please contact Abracon Quality Assurance department