

I VDS 5x3.2mm 3.3V VCXO



Model: FVXO-I C53 SERIES RoHS Compliant / Pb Free

Rev. 9/6/2006 Preliminary

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MODEL SELECTION GUIDE

F V X O - I C 5 3 b R - 155.520000

L = LVDS
C = Ceramic
5 = 5x3.2mm
3 = 3.3V

Frequency
Blank = -20~+70°C
R = -40~+85°C
B = ±50PPM APR

ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (F _o)	1.000 MHz ~ 1.100 GHz
Absolute Pull Range (APR) ¹	± 50 PPM Min
Storage Temperature Range (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	3.3V ± 5%
Control Voltage (V _c)	1.65V ± 1.5V
Input Current (I _{DD})	100mA
Output Symmetry (50% V _{p-p} Level)	45% ~ 55%
Rise Time (T _R) (20% ~ 80% V _{p-p})	400pS
Fall Time (T _F) (80% ~ 20% V _{p-p})	400pS
Differential Output Voltage (V _{OD})	0.250V ~ 0.450V
Output Offset Voltage (V _{OS})	1.125V Typ.
Differential Output Swing (V _{p-p})	0.35V _{p-p} Min
Output Load	100 Ohms Typ.
Start-up Time (T _s)	10mS
Output Enable / Disable Time ²	100nS
Linearity	±10%
Modulation Bandwidth	10kHz Min
Maximum Soldering Temp / Time	260°C / 10 Seconds
Moisture Sensitivity Level (MSL)	1
Termination Finish	Au

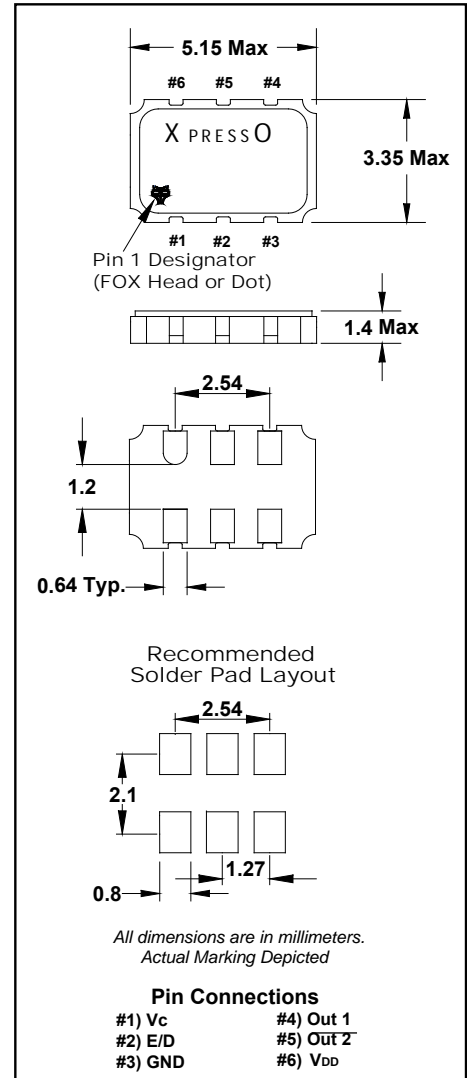
¹ Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

² An internal pullup resistor from pin 2 to pin 6 allows active output if pin 2 is left open.

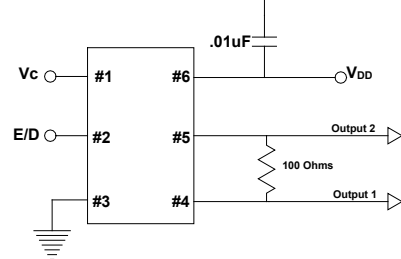
- If you have specific jitter or phase noise requirements please contact Fox Technical Support for availability.

- A 0.01µF bypass capacitor should be placed between V_{DD} (Pin 6) and GND (Pin 3) to minimize power supply line noise.

- The above specifications, having been carefully prepared and checked, is believed to be accurate at the time of publication; however, no responsibility is assumed by Fox Electronics for inaccuracies.



Recommended Circuit:



ENABLE / DISABLE FUNCTION²

(Pin 2)	OUTPUT (Pin 4, Pin 5)
OPEN	ACTIVE
'1' Level V _{IH} ≥ 70% V _{DD}	ACTIVE
'0' Level V _{IL} ≤ 30% V _{DD}	High Z

Patent Numbers:
US 6,664,860, US 5,960,403, US 5,952,890, US 5,960,405; US 6,188,290;
Foreign Patents: R.S.A. 98/0866, R.O.C. 120851; Singapore 67081, 67082; EP 0958652
China ZL 98802217.6, Malaysia MY-118540-A, Philippines 1-1998-000245
US and Foreign Patents Pending
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• TAPE SPECIFICATIONS (millimeters)

MODEL	A	b	C	D	E	F	STD Reel QTY
FVXO-LC53	∅1.5	4.0	8.0	7.5	16.0	2.15	2,000

• REEL SPECIFICATIONS (millimeters)

MODEL	G	H	I	J	K	I	M
FVXO-LC53	2.0	∅13	∅21	∅80	∅255	17.5	2.0

