

Farnell Order Code: 1538975

FOX MODEL: FXO-LC535R-100

FOX Part Number: 770-100-9

LVDS, CERAMIC, SMD, OSCILLATOR

A. Specifications

Parameters	
Frequency	100 MHz
Frequency Stability ¹	±50 PPM
Temperature Range	
Operating (T _{OPR})	-40°C ~ +85°C
Storage (T _{STG})	-55°C ~ +125°C
Supply Voltage (V _{DD})	3.3V ± 5%
Input Current (I _{DD})	100 mA Max
Differential Output Voltage (V _{OD})	0.250V ~ 0.450V
Output Offset Voltage (V _{OS})	1.125V Typ
Differential Output Swing (V _{P-P})	0.250V _{P-P} Min
Output Symmetry (50% V _{P-P} Level)	45% ~ 55%
Rise Time (20% ~ 80% V _{P-P}) (TR)	400 pS Max
Fall Time (80% ~ 20% V _{P-P}) (TF)	400 pS Max
Output Load (Recommended Circuit below)	100 ohms
Startup Time (T _S)	10 ms Max
Output Enable / Disable Time ²	100 nS Max
Phase Jitter (12kHz ~ 20MHz)	1.32 pS Typ.
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 1 to pin 6 allows active output if pin 1 is left open.

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

NOTE A 0.01μF bypass capacitor should be placed between V_{DD} (Pin6) and GND (Pin 3) to minimize power supply line noise.

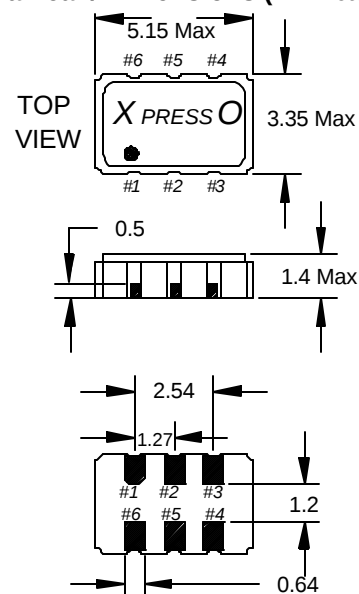
RoHS Compliance Status: Compliant



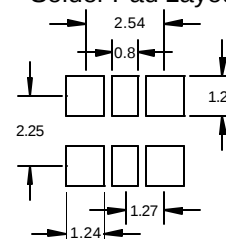
Drawing is for reference to critical specifications defined by size measurements.
Certain non-critical visual attributes, such as side castellations, reference pin shape, etc. may vary

NOTE 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.

Mechanical / Dimensions (millimeters):



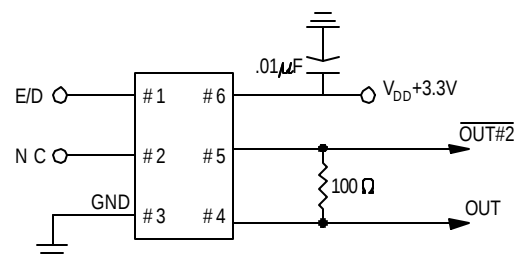
Recommended Solder Pad Layout



Pin Connections

#1 E/D	#4 Output 1
#2 NC	#5 Output 2
#3 GND	#6 V _{DD}

B. Recommended Circuit



Reference / Comments	Title / Description: Product Specifications		
	Drawing Number: DWG-4550-1	Rev: 1	Size: A
	Part Number: 770-100-9		Cage: 61429
	Draftsperson: AR	Approved: BN	Date: 01/15/2008