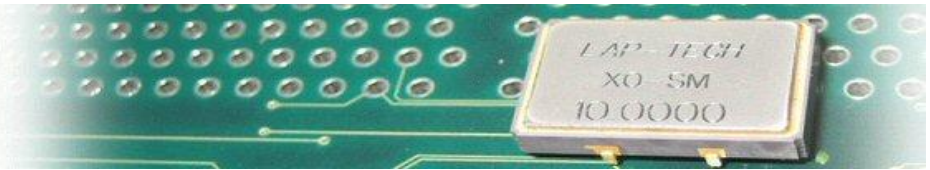




LAP-TECH INC.

"Focused on Frequency"



STANDARD FREQUENCY COMPONENTS THRU-HOLE : LVA (14 DIP), LVBA, LVCA VCXO

Description

VCXO: Thru-Hole LVA (14 DIP), LVBA, LVCA

Thru-Hole Voltage Controlled Oscillator

1.000 MHz ~ 100.000 MHz frequency range

RoHS Compliant

Features

Wide pullability

Industry standard, crosses to most major brands

Low current consumption

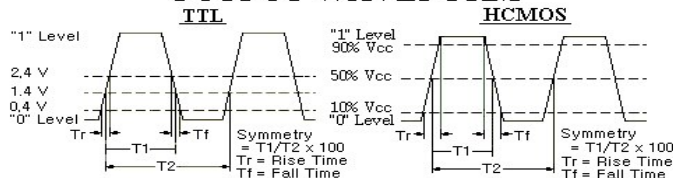
Highly reliable performance

Electrical Specifications

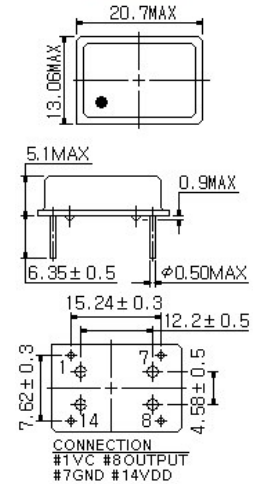
Type:	VCXO (Voltage Controlled Oscillator)
Frequency Range:	1.000 MHz ~ 100.000 MHz
Operating Temp Range:	0°C ~ +70°C (Typ.)
Storage Temp Range:	-40°C ~ +85°C
Start Up Time:	10 m Sec Max.
Load Drive Capability:	10 TTL Load or 15 pF HCMOS Load
Linearity:	± 20 % ~ ± 5 %
Frequency Stability:	± 10 ppm ~ ± 50 ppm Max.
Rise / Fall Time:	5 n Sec Max.

Parameters	Characteristics	
	5.0 VDC ± 5 %	3.3 VDC ± 5 %
Supply Voltage (VDD)	5.0 VDC ± 5 %	3.3 VDC ± 5 %
Input Current	1.000 MHz ~ 20.000 MHz	20 mA Max. 15 mA Max.
	20.001 MHz ~ 40.000 MHz	30 mA Max. 25 mA Max.
	40.001 MHz ~ 60.000 MHz	40 mA Max. 35 mA Max.
	60.001 MHz ~ 100.000 MHz	50 mA Max. 45 mA Max.
Frequency Deviation	2.5 VDC ± 2.0 VDC	± 10 ppm ~ ± 100 ppm Min.
Pin 1 control Voltage	2.5 VDC ± 2.5 VDC	± 10 ppm ~ ± 150 ppm Min.
	1.65 VDC ± 1.65 VDC (or ± 1.5 VDC)	± 10 ppm ~ ± 150 ppm Min.
Output Voltage Logic High (VOH)	w/ TTL Load	2.4 VDC Min
	w/ HCMOS Load	90 % VDD Min.
Output Voltage Logic Low (VOL)	w/ TTL Load	0.4 VDC Max.
	w/ HCMOS Load	10 % of VDD Max.
Duty Cycle	@ 50% of Waveform w/ HCMOS Load or 1.4 VDC w/ TTL Load	50 ± 10 % (Typ.), 50 ± 5 %

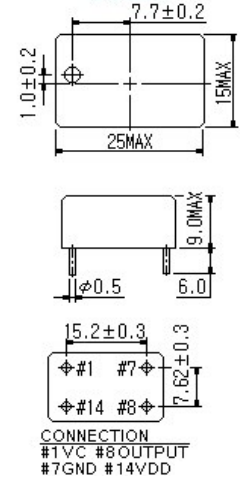
OUTPUT WAVEFORM



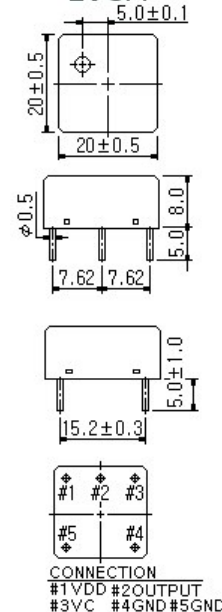
LVA14A



LVBA



LVCA



THRU-HOLE : SV14A, SVBA, SVCA 1.000 MHz ~ 100.000 MHz (VCXO'S)