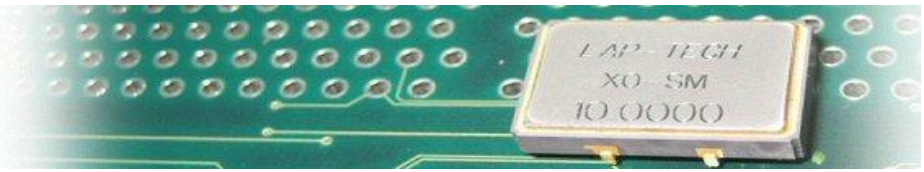




LAP-TECH INC.

"Focused on Frequency"



STANDARD FREQUENCY COMPONENTS TO-1040SM LNBF TCXO SURFACE MOUNT

Description

Low noise block down converter for LNBF satellite applications.

Features

- Very Low Phase Noise
- Wide Temperature Range
- Low Unit Cost
- Compact Design
- RoHS Compliant

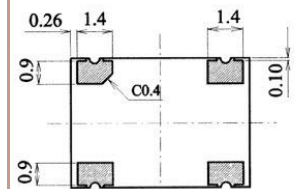
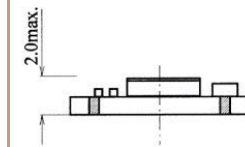
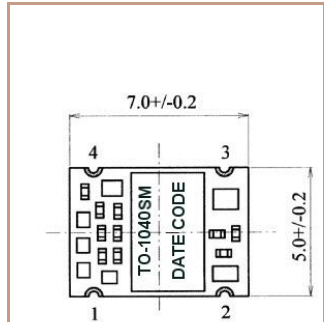
Electrical Specifications

Type:	TCXO (Temperature Compensated Crystal Oscillator)
Frequency:	10.000 MHz ~ 40.000 MHz
Operating Temp:	-20°C ~ +85°C
Storage Temp:	-40°C ~ +85°C
Supply Voltage:	3.0 ± 5 % (VDC)
Input Current:	2.0 mA Max.
Output Voltage:	0.8V pp min.
Load:	(10kΩ // 10pF) ± 10 %
Output Wave:	Clipped Sine Wave

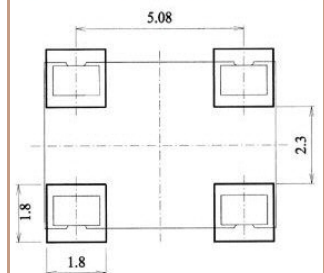
Parameters		Characteristics
Frequency Stability	VS Temp. (-20° C ~ +85° C)	± 3.0 ppm
	VS Voltage (3.0VDC±5 %)	± 0.5 ppm
	VS Load ((10kΩ//10pF)±10%)	± 0.5 ppm
Aging	1 Year (25 ± 2° C)	± 1.0 ppm
	10 Years (25 ± 2° C)	± 5.0 ppm
After Reflow-Soldering (2 times)		± 1.0 ppm
Initial Freq. Tolerance @25±2° C		± 1.0 ppm

Phase Noise (Target Specifications)

dBc/Hz Max.	Offset
-55	@ 1 Hz
-95	@ 10 Hz
-110	@ 30 Hz
-125	@ 100 Hz
-145	@ 1 kHz
-150	@ 10 kHz
-150	@ 100 kHz



RECOMENDED LAND PATTERN



PIN CONNECTIONS

#1: NC	#3: Output
#2: GND	#4: Vee

TO-1040SM