

ULTRA-LOW PROFILE (1.3 mm MAX) MINIATURE SURFACE MOUNTABLE CRYSTAL OSCILLATORS

FEATURES

- Designed for surface mount applications using infrared, vapor phase, wave soldering, or epoxy mounting techniques.
- TTL and CMOS compatible.
- Lower power consumption.
- Tri-State.
- Low EMI emission.
- High shock resistance.
- Full military testing available.

APPLICATIONS

- PCMCIA (FAX, Modem, and LAN)
- Smart Card
- Palmsize and notebook computers
- Military airborne hybrid computer
- Military high speed modem signal generator

PIN CONNECTIONS

- 1 INH
- 2 Ground
- 3 Output
- 4 Vdd

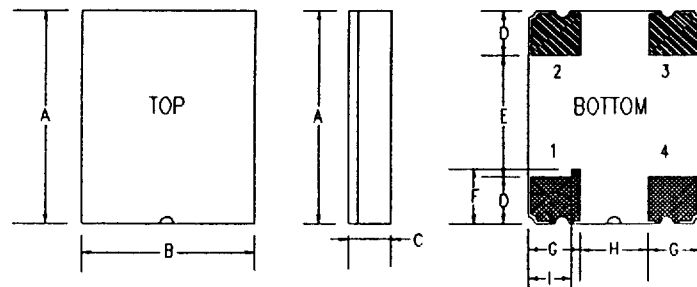
CX0-M Series

1.25 MHz-50.0 MHz

DESCRIPTION

Statek surface-mountable CX0-M oscillators consist of a TTL and CMOS compatible hybrid circuit and a Statek miniature quartz crystal in an ultra-low profile ceramic leadless chip carrier – providing the lowest profile and the smallest footprint available in the industry.

PACKAGE DIMENSIONS



	MIN.		TYP.		MAX.	
	mil	mm	mil	mm	mil	mm
A	249	6.32	256	6.50	263	6.68
B	190	4.83	197	5.00	204	5.18
C	46	1.17	49	1.24	52	1.3
D			55	1.40		
E			146	3.71		
F			65	1.65		
G			60	1.52		
H			77	1.96		
I			50	1.27		
J			80	2.03		
K			120	3.05		
L			60	1.52		



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 A TECHNICORP COMPANY 10116-2/94

SPECIFICATIONS

Specifications are typical at 25°C unless otherwise noted. Specifications are subject to change without notice.

Supply Voltage	3-5 V
Calibration Tolerance:**	A: $\pm 0.01\%$ B: $\pm 0.1\%$ C: $\pm 1.0\%$
Frequency Stability:**	-40 to +85°C ± 100 ppm -55 to +125°C ± 200 ppm (Tighter stability available)
Supply Current (Typical)	6 mA for 12 MHz 8 mA for 24 MHz
TTL Load	10
Start-up Time (Typical)	250 μ s
Rise/Fall Time	3 ns TYP., 6 ns MAX.
Duty Cycle	40% MIN., 60% MAX.
Aging, first year	10 ppm MAX.
Shock, survival***	3,000g MIN., 0.3 ms, 1/2 sine
Vibration, survival	20g rms 10-2000 Hz random
Operating Temp.	Commercial -10 to +70°F Industrial -40 to +85°C Military -55 to +125°C
Storage Temp.	-55 to +125°C

* Tighter tolerances available.

** Does not include calibration tolerance.

*** High shock version available.

Note: All parameters are measured at ambient temperature with a 10 M Ω /10pF scope probe, with supply voltage at 5V.

HOW TO ORDER CX0-M SURFACE MOUNT CRYSTAL OSCILLATORS

CX0-M- _____ -Frequency (_____ / _____)

"S" if special or custom design

A Calib. C = Commercial Temp
B Calib. I = Industrial Temp
C Calib. M = Military Temp

ABSOLUTE MAXIMUM RATINGS

Supply Voltage Vdd	-0.5 to 7.0V
Storage Temperature	-55 to +125°C
Maximum Process Temperature	260°C, 10 seconds

NOTES:



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