



Dynamic Engineers Inc.

2550 Gray Falls Dr., Suite#128, Houston, TX, 77077 USA
TEL: 1-281-870-8822 EMAIL: Sales@DynamicEng.com

XO3225AL-26.67MHz-A

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Features and Benefits

Broad frequency range from 1MHz to 106MHz
Compact and thin ceramic package with a metalized for
surface mounting and automatically loaded
Reflow solder is possible
Lower noise and current with reduced power consumption
Built-in C-MOS IC with tri-state function
5V and 3.3V supply model available

Typical Applications

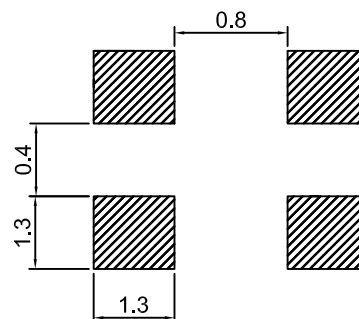
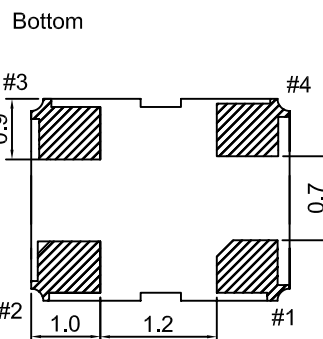
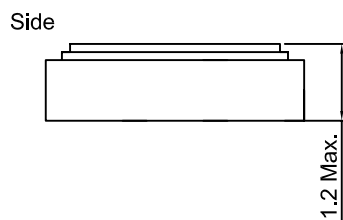
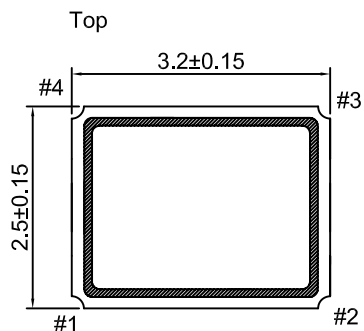
Ideally suited designed for use in PCs, NB, PCMCIA Cards, Palmtop
Computer
Portable Applications

Description

XO3225AL-26.67MHz-A offers broad frequency range from 1MHz to 106MHz and lower noise and current with reduced power consumption. Built-in C-MOS IC with tri-state function and compact and thin ceramic package with a metalized for surface mounting and automatically loaded. Ideally suited designed for use in portable applications.

Mechanical Drawing & Pin Connections

Drawing No: MD160011-2



Pin Connections

Pin	Function
1	Tri-State
2	GND
3	RF Output
4	Supply Voltage

Unit in mm

1mm = 0.0394 inches

Recommended soldering pattern



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Specifications

Oscillator Specification	Sym	Condition	Value			Unit	Note
			Min.	Typ.	Max.		
Frequency	F			26.67		MHz	
Output High (Logic "1")			2.97			V	
Output Low (Logic "0")					0.33		
Rise Time / Fall Time	Tr / Tf	Measured between 10% <-> 90% of VDD			1.0	nsec	
Start Time				10		msec	
Tri-state		Enable (high voltage) Disable (low voltage)	2.31		0.99	V	
Output Load				15		pF	
Symmetry (Duty ratio)			45		55	%	
Output Disable delay Time				150		us	
Output Enable delay time				150		us	
Power Supply							
Supply Voltage	V _{DD}	±10%		3.3		V	
Input Current				15		mA	
Frequency Stability							
Frequency Stability				±25		ppm	
Aging		@+25°C 1st year		±5		ppm	
Environmental Conditions							
Operating temperature range		-40°C to +85°C					
Storage temperature range		-55°C to +125°C					

Reliability Test Specifications

Test Item	Conditions	Specifications
SOLDERABILITY TEST	1.solderability:235±5°C, 5±0.5S 2.heat resistance:260±5 °C,10±1S restoration of 1 hour	MIL-STD-883E Method2003.7
HERMETICITY TEST	FC-84 FLUOROCARBON,BUBBLE MACHINE	MIL-STD-883E Method1014.10
VIBRATION TEST	Enable Crystal(10g) from 10-55-10Hz,X、Y、Z horizontal,1 Minute vibration/time, 1time/ 2 hours.	MIL-STD-883E Method2007.3
MECHANICAL SHOCK	Enable Crystal 50G(490m/s2) time=11 ms speed=3.4 m/s half sine wave oscillation	JIS C6701
DROP TEST	75cm high,3 times on hard board	MIL-STD-202F Method 213B
SALT SPRAY	5% NaCL,35°C±2°C chamber,48 hrs. , PH:6.5 ~ 7.2	JIS C6701
HIGH&LOW TEMP STORAGE TEST(Static test)	High temperature: 125°C±2°C,1000hr; Low temperature:-40°C±3°C,1000hrs	MIL-STD-883C,METHOD1011.8
TEMP & HUM CYCLING TEST	Temperature:-10 °C ± 2 °C ~ 65 °C ± 2 °C ,Humidity:93 ± 3%,1 cycle need 24 hrs. 5cycles.	MIL-STD-883E Method1005.8
HIGH TEM. & HUM. STORAGE TEST	temperature:40 °C ± 2 , Humidity:85+3,- 2%,Store 96 hrs	JIS C6701
AGING TEST	temperature: 85°C±2, 1000hrs	JIS C5023