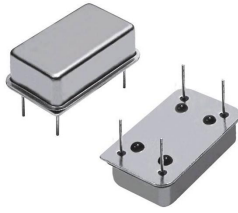


DIP QUARTZ CRYSTAL OSCILLATOR



4 Pin Version 20.7×13.2 mm

- ±20 ppm type available
- Excellent Reliability Performance

RoHS
2002/95/

RoHS compliant

★ PARAMETERS

PARAMETERS	SPECIFICATION		
Frequency Range	0.4~200MHz, 32.768KHz		
Supply voltage	1.8V、3.3V、5.0V		
Input Current		TTL	CMOS
	0.5MHz ~ 24.999MHz	25mA max	20mA max
	25MHz ~ 99.999MHz	40mA max	40mA max
	100MHz ~ 200MHz	60mA max	60mA max
Frequency Stability Overall	±20ppm~±100ppm		
Operating Temp. Range	-10~+60℃ to -40~+85℃		
Storage Temp. Range	-55~+125℃		
Output Load	CMOS or TTL (15pF/1-10TTL)		
Symmetry	45% ~ 55% typ. (40% ~ 60% max.) at 0.5×Vdc		
Start-up time	10mS max		
Rise & Fall Time	10nS max		
Aging	±5ppm max/Year		

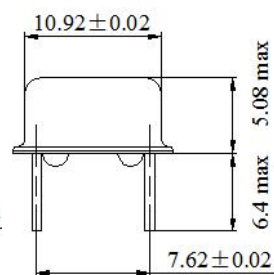
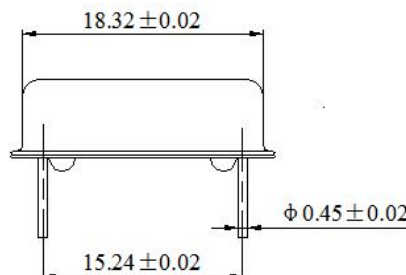
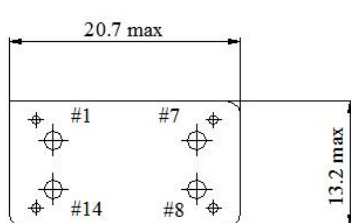
○ All specification subject change without notice.

★ FREQUENCY STABILITY VS. TEMPERATURE

Operation Temperature Range	Frequency Stability			
	±20ppm	±25ppm	±30ppm	±50ppm
-10℃~+60℃	○	●	○	○
-20℃~+70℃	○	○	●	○
-40℃~+85℃				●

● standard ○ available

★ DIMENSIONS& LAND PATTERN LAYOUT (Unit: mm)



Pin	Connection
1	Tri-state or no connect
2	GND
3	Output
4	V _{DC}

★ PART NUMBER GUIDE *e.g. FXO12.000M3.3F-50D (*F=Full Size, DIP14)*

Logo	Quartz Crystal Oscillator	Frequency Hz	Supply voltage V	Package	Frequency Stability ppm	Operating Temp. Range
F	XO	12.000M	3.3	F	50	D

Definition	Description
Operating Temperature Range	A: -10~+60℃
	B: -20~+70℃
	C: -30~+80℃
	D: -40~+85℃
	E: Customer specified

★ WAVE SOLDERING PROFILE

