

FXO-61F

Miniature Clock Crystal Oscillator

■Features

- Ultra-thin, thickness (5×3.2×1.2mm).
- It is a compact and thin ceramic package with a matalized lead for surface mounting that is able to be automatically loaded.
- Reflow soldering is possible.
- CMOS, TTL IC direct drive is possible. Depending upon the frequency band, there is also a crystal oscillator with a CMOS-IC with a tri-state function built in.
- Use in the broad frequency band from 1.8MHz to 50MHz is possible.



■ Original Size

■Specifications

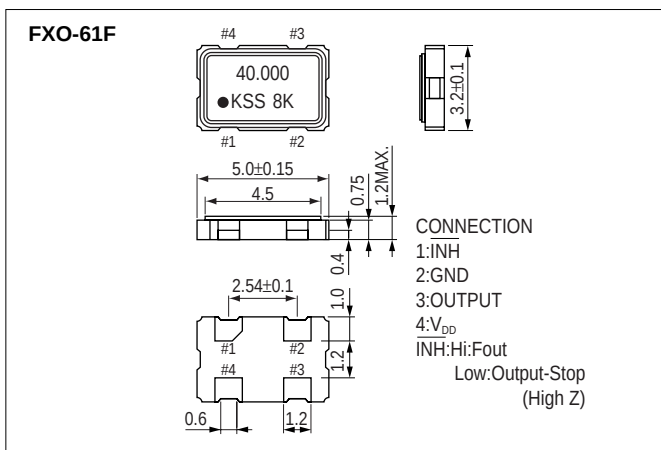
Item	Type	FXO-61F	FXO-61FH	FXO-61FT	FXO-61FL
Application		C-MOS Output Type	C-MOS Output Heavy Load Type	TTL Output Type	Low Voltage Type
Frequency Range		1.8~50MHz			
Frequency Stability		±100×10 ⁻⁶			
Operating Temperature Range		-10~+70℃			
Storage Temperature Range		-55~+125℃			
Supply Voltage		5V±0.5V			3.3V±0.3V
Current		25mA MAX.	25mA MAX. (1.8~15.0MHz) 30mA MAX. (15.1~32.0MHz) 45mA MAX. (32.1~50.0MHz)		18mA MAX. (1.8~39.9MHz) 25mA MAX. (40.0~50.0MHz)
Load		15pF (LS10TTL)	50pF (10TTL)		20pF (5TTL)
Output Level		V _{OH} : 0.9×V _{DD} MIN. V _{OL} : 0.5V MAX.			V _{OH} : 0.9×V _{DD} MIN. V _{OL} : 0.4V MAX.
Output Symmetry		40~60%(VT=1/2V _{DD})		40~60%(VT=1.4V)	40~60%(VT=1/2V _{DD})
Rise Time/Fall Time		10ns MAX.		6ns MAX.	
Start-up Time		10ms MAX.			
Vibration		10~55Hz Amplitude 1.5mm, Cycle 2 minute, 3 direction, 2 hour each			
Shock		1000G			
Weight		0.1g			

■Table 1

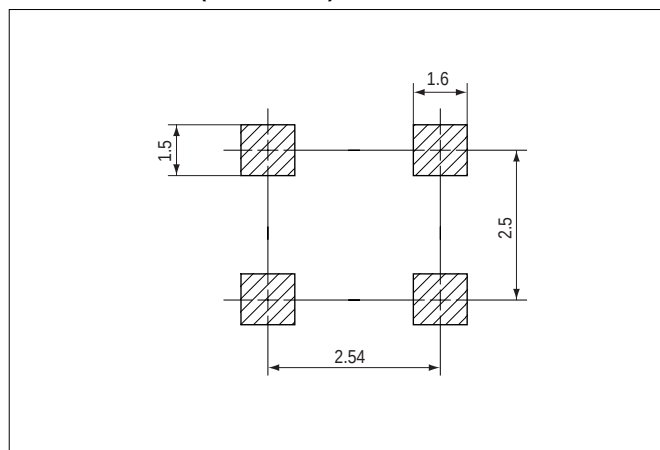
Standard Frequencies(MHz)

FXO-61F		
1.8432	16.000	31.120
3.5712	16.384	31.500
3.6864	17.734476	33.000
4.000	18.000	33.8688
6.600	20.000	36.000
8.000	22.8665	37.5466
10.000	24.5454	39.150
11.2896	25.000	40.000
12.000	25.715	46.93325
12.500	27.000	48.000
12.600	27.4123	49.0909
13.500	28.63636	50.000
14.31818	29.500	
15.968	30.87095	

■Outline



■Land Pattern(reference)



Dimensions(mm)