

FCom Crystal Oscillator

Series FCO-HL

Standard Clock Oscillator 8-DIP Half Size



Feature

- Typical 12.46×12.46×5mm
- Tight symmetry (45 to 55%) available
- Operation voltage: 5V, 3.3V
- Tri-state enable / disable

Application

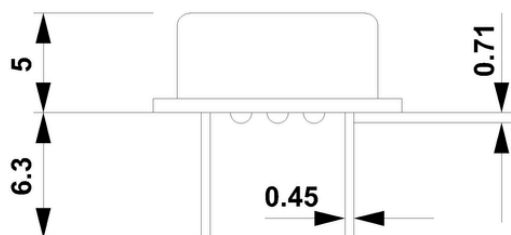
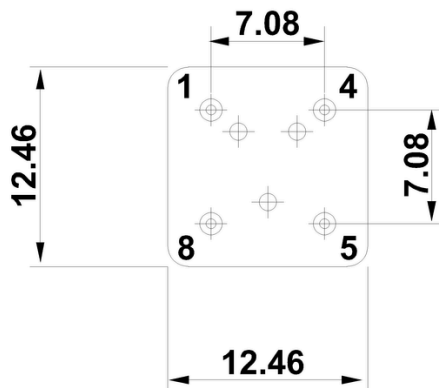
- Communication, wireless communication
- Test instruments, industrial equipment
- Frequency converter

ELECTRICAL SPECIFICATIONS

Parameters		Symbol	Min.	Typ.	Max.	Units	Notes	
Frequency Range		F	0.25~180			MHz		
Frequency Stability		Fs	±25, ±50, ±100			ppm		
Operating Temperature			0~70, -20~70, -40~85			°C		
Supply Voltage		Vdd	-	3.3V	5.0V	V	Typ.	
Fan out Type			-	CMOS	TTL/CMOS			
Current Consumption	0.25MHz ≤ FO < 20MHz	Icc	-	10	15	mA	Max.	
	20MHz ≤ FO < 50MHz		-	30	40			
	50MHz ≤ FO < 180MHz		-	40	50			
Transition Time: Rise/Fall Time	0.25MHz ≤ FO < 20MHz	Tr/Tf	-	10	8	nSec	@10% ~ 90% @ load 15pF	
	20MHz ≤ FO < 50MHz		-	6	5			
	50MHz ≤ FO < 180MHz		-	5	4			
Input Voltage	Vol	Vdd	-	0.33	0.4/0.5	V	Max.	
	2.4V/4.5V		-	2.4/2.5	3.0		Min.	
Driving Ability	CMOS			15	15/50	pF	Load Max	
	TTL				10TTL			
Stand by Current		Icc(ST)	-	-	15	uA		
E/D Function	#1 OPEN		Pin#5 Open					
	#1 ≥ 2.2V		Pin#5 Open					
	#1 ≤ 0.8V		Pin#5 High					
Duty Cycle		TH/T	45	~	55	%		
Start-up Time	@ load 15pF	Tosc	-	-	5	mSec		
	@ load 50pF		-	-	50			
Aging		ppm/yr	±3, ±5			ppm/yr	1st. Year at 25°C	

⚠ Note : The table shows common spec. if you have special spec. requirement , please feel free to contact our salesperson.

DIMENSION(mm)



Pin	Function
1	Tri-State/NC
4	GND
5	Output
8	Vdd