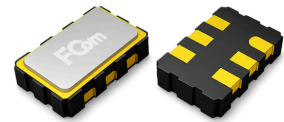


FCom VCXO

Series FVC-5L-PG

Differential VCXO 5.0×3.2 mm



Feature

- LVPECL / LVDS output
- Low jitter performance: < 1 ps RMS from 12k-20MHz
- Output frequency up to 1500 MHz
- Tri-state enable/disable

Application

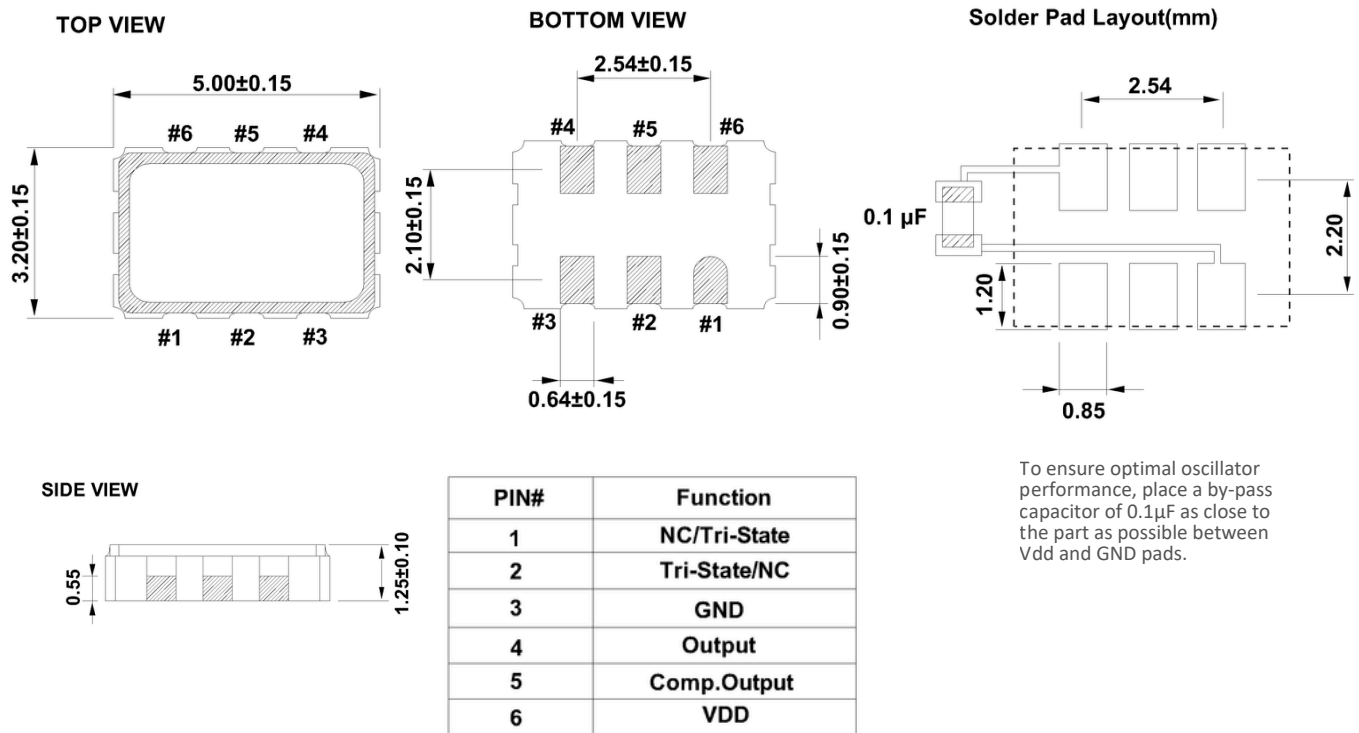
- Set-top Box, HDTV
- WiMAX/WLAN
- Jitter Attenuator, ADC
- xDSL/ VoIP, Cable modem

ELECTRICAL SPECIFICATIONS

Parameters		Symbol	LVPECL		LVDS		Units	Notes	
			2.5V / 3.3V		2.5V / 3.3V				
			Min.	Max.	Min.	Max.			
Frequency Range		F	10~1500				MHz		Test condition Ambient temperature : 25 ± 5°C Relative humidity : 40% ~ 70%
Standard Frequency		F	122.88, 125, 155.52, 200, 491.52, 622.08		125, 155.52, 200, 491.52		MHz		
Supply Current	100≦Fo<160MHz	Icc	-	75	-	50	mA		
	160≦Fo<1500MHz		-	100	-	75			
Absolute Pulling Range		APR	±50	-	±50	-	ppm		
Control Voltage Range		Vc	0.3	3.0	0.3	3.0	V		
Transition Time	Rise Time	Tr	-	1.0	-	1.0	nSec		
	Fall Time	Tf							
Output Level		VoH	2.275	-	-	1.6	V	Output High	
		VoL	-	1.68	0.9	-	V	Output Low	
Tri-State Mode (Input to Pin 2)		VIH	70% Vdd	-	70% Vdd	-	V	Enable	
		VIL	-	30% Vdd	-	30% Vdd	V	Disable	
Phase Noise		PN	Typ.	Max.	Typ.	Max.	dBc/Hz	@614.4MHz	
100 Hz			-70	-	-70	-			
1 kHz			-95	-	-95	-			
10 kHz			-105	-	-105	-			
RMS Phase Jitter	Integer Mode	PJ	-	1.2	-	1.2	pSec	@12kHz~20MHz	
Linearity			-	10	-	10	%		
Modulation Bandwidth		BW	10	-	10	-	kHz		
Input Impedance			1000	-	1000	-	kΩ		
Start-up Time		Tosc	10				mSec	Max	
Aging			±3				ppm/yr.	@ 25°C 1st year	

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

 DIMENSION(mm)



 FREQ. STABILITY vs. TEMP. RANGE

Temp.(°C) \ ppm	± 25	± 50
@-10~60°C	○	○
@-20~70°C	○	○
@-40~85°C	△	○
@-40~105°C	×	△

○: Available △: Conditional ×: Not available

Inclusive of calibration @25°C, operating temperature range, input voltage variation, load variation, aging (1st year), shock, and vibration.