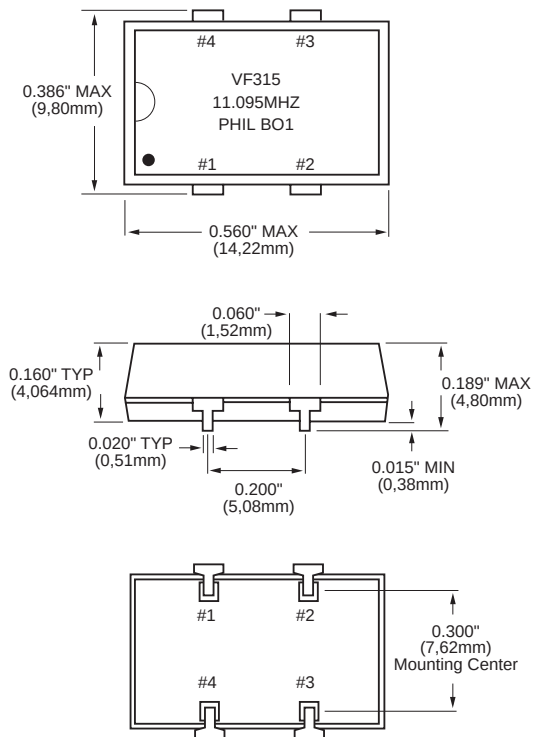


VF315

HCMOS/TTL Plastic Surface Mount
Crystal Clock Oscillators

FEATURES

- Industry Standard Footprint
- Excellent Value
- Industry Temperature Range Available
- Tristate Available



All dimensions are typical unless otherwise specified.

Creating a Part Number

VF315 [] [] [] [] - **FREQ.**

FREQUENCY STABILITY	
Code	Specification
A	±25 ppm
B	±50 ppm
	±100 ppm (std.)

DUTY CYCLE	
Code	Specification
H	±5%
	±10% (std.)

OPERATIONAL TEMP. RANGE	
Code	Specification
	-10°C to +70°C (std.)
1	-40°C to +85°C

INPUT VOLTAGE	
Code	Specification
L	3.3 Volt
	5.0 Volt (std.)

OUTPUT	
Code	Specification
P	Tristate
	Nontristate

Example: VF315AHL-1-P 11.095MHz: Frequency Stability ±ppm, Duty Cycle ±5%, Input Voltage 3.3 Volt, Operating Temperature -40°C to +85°C, Output TriState.

Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
Input Break Down Voltage	V _{cc}		-0.5		7.0	V	
Storage Temp.	T _s		-55		+125	°C	
Frequency	F		1.5		70	MHz	
Frequency Stability	ΔF/F	Overall conditions including: calibration, temp., aging 10 yrs, shock, vibration			±100	ppm	1
Input Voltage	V _{cc}		4.75 3.15	5.00 3.30	5.25 3.45	V	Std. LV Opt.
Input Current	I _{cc}	No load 1.5-12MHz 12-25MHz 25-40MHz 40-70MHz			16 22 32 56	mA	
Load		10 TTL gates or 50pF					
Duty Cycle		@1.4V	40	50	60	%	2
Rise/Fall Time	Tr/Tf	0.5V to 4.5V			5	ns	
Logic "1" Level	V _{oh}	Max Load	0.9V _{cc}			V	
Logic "0" Level	V _{ol}	Max Load			0.1V _{cc}	V	
Start-up Time	T _s			2	10	ms	
Phase Jitter		1σ			10	ps	fj>1KHz
Tristate Function		Input HIGH (>2.5V) or floating: ACTIVE Input LOW (<0.5V): INFINITE IMPEDANCE					
Enable/Disable Time	T _e /T _d				100	ns	
Operating Temperature Range		-10°C to +70°C (-40°C to +85°C available)					
Mechanical Shock		Per MIL-STD-202, Method 213, Cond. E					
Thermal Shock		Per MIL-STD-883, Method 1011, Cond. A					
Vibration		Per MIL-STD-883, Method 2007, Cond. A					
Soldering Conditions		260°C, for 10s, Max. or 230°C, for 90s Max.					
Pin Out		Pin #1-Tristate Control or N/C Pin #2-Ground Pin #3-Output Pin #4-V _{cc}					

Notes:

1. Standard frequency stability.
2. Tighter duty cycle available. Measure @50% of the voltage swing.

All specifications are subject to change without notice.