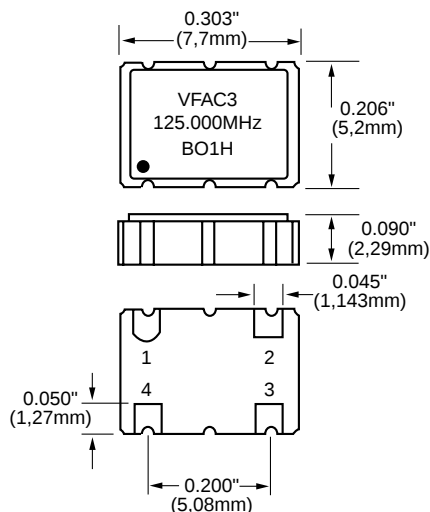


VFAC3

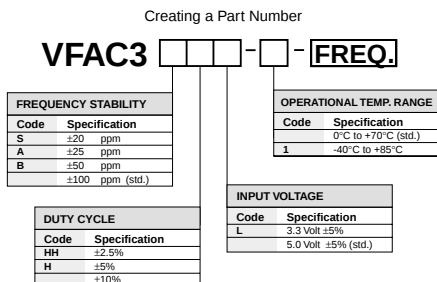
ACMOS/TTL Compatible
Surface Mount Clock Oscillators

FEATURES

- Very Low Phase Jitter
- Wide Frequency Range
- Miniature Ceramic Package
- EMI Shielded
- Tight Duty Cycle Available
- Wide Temperature Range Available
- Tristate Control Standard



All dimensions are typical unless otherwise specified.



Example: VFAC3H-L-125MHz: Frequency Stability ±100ppm, Duty Cycle ±5.0%, Input Voltage 3.3 Volt ±5%, Operating Temperature 0°C to +70°C, Frequency 125.000MHz.

		Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
Absolute Max. Ratings		Input Break Down Voltage	Vcc		−0.5		7.0	V	
		Storage Temp.	Ts		−55		+125	°C	
Electrical	e	Frequency Range	F		80		160	MHz	
		Frequency Stability	ΔF/F	Overall conditions including: calibration, temp., aging 10 yrs, shock, vibration			±100	ppm	1
		Input Voltage	Vcc		4.75 3.15	5.00 3.30	5.25 3.45	V	Std. LV Opt.
		Input Current	Icc	F = 100MHz 15pF load			60	mA	2
		Load	10 TTL gates or 50pF Max., AC coupled 50 Ohm termination recommended						
		Duty Cycle		@1.4V @ 50%Vcc	40 40	50 50	60 60	% %	3
		Rise/Fall Time	Tr/Tf	0.4V to 2.4V 20% to 80%			1.5	ns	
		Logic “1” Level	Voh	Max Load	0.9Vcc			V	
		Logic “0” Level	Vol	Max Load			0.1Vcc	V	
		Start-up Time	Ts			2	10	ms	
		Phase Jitter		1σ			1	ps	fj>1KHz
		Tristate Function	Input HIGH (>2.5V) or floating: ACTIVE Input LOW (<0.5V): INFINITE IMPEDANCE						
	Enable/ Disable Time					100	ns	4	
Environmental and Mechanical		Operating Temperature Range	0°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 90 sec						
		Hermetic Seal	Leak rate less than 5 x 10 ^{−8} atm.cc/s of helium						
Physical Connections		Pin Out	Pin #1–Tristate Control Pin #2–Ground, Case Pin #3–Output Pin #4–Vcc						
		Electrical Connections	Notes: 1. Standard frequency stability (±20, ±25, ±50, others available). 2. Current is load and frequency dependent. 3. Tighter duty cycle available. 4. Some versions enable time 10ns. All specifications are subject to change without notice.						