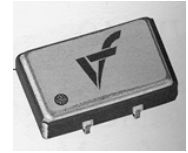
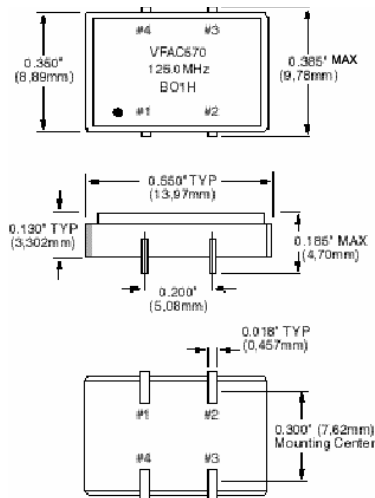


Valpey Fisher Corporation
High Frequency, Low Phase Noise Timing Solutions



- Wide Frequency Range
- Very Low Phase Jitter
- EMI Shielded
- Tight Duty Cycle Available
- Wide Temperature Range
(-55 °C to ± 125 °C) Available
- Tristate Control Standard



Absolute Max. Ratings	Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
	Input Break Down Voltage	Vcc		-0.5		7	V	
	Storage Temp.	Ts		-55		+125	°C	
	Frequency Range	F		4.0		160	MHz	
	Frequency Stability	ΔF/F	Overall conditions including: calibration, temp., aging 10 yrs, shock, vibration			±100	ppm	1
Electrical	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			50	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
	ed.	Tristate Function	Input HIGH (>2.5v) or floating: ACTIVE Input LOW (<0.5v): INFINITE IMPEDANCE					
	Enable/ Disable Time	Ts				100	ns	
Environmental and Mechanical	Operating Temperature Range	0°C to +70°C (-40°C to +85°C, and -55°C to +125°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.						
	Hermetic Seal	Leak rates less than 5 x 10 ⁻⁸ atm.cc/s of helium						
al tions	Pin Out	Pi#1-Tristate Control Pin #2-Ground Case Pin #3-Output Pin #4-Vcc						

1. Up to ± 20 ppm available.
2. Current is load and frequency dependent.
3. Standard symmetry, tighter available.

All specifications are subject to change without notice.

Creating a Part Number

VFAC570 - - **FREQ.**

FREQUENCY STABILITY	
Code	Specification
S	+20 ppm
A	+25 ppm
B	+50 ppm
	+100 ppm (std.)
C	+500 ppm

OPERATIONAL TEMP. RANGE	
Code	Specification
	0°C to +70°C (std.)
1	-40°C to +85°C
2	-55°C to +125°C*

*Not always available

DUTY CYCLE	
Code	Specification
HH	≥2.5%
H	≥5%
	≥10% (std.)

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

Example: VFAC570BHHL-125.000MHz: Frequency Stability ±50ppm, Duty Cycle ≥2.5%, Input Voltage 3.3 Volt ±5%, Operating Temperature -40°C to +85°C, Output Tristate, Frequency 125MHz.

