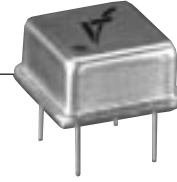


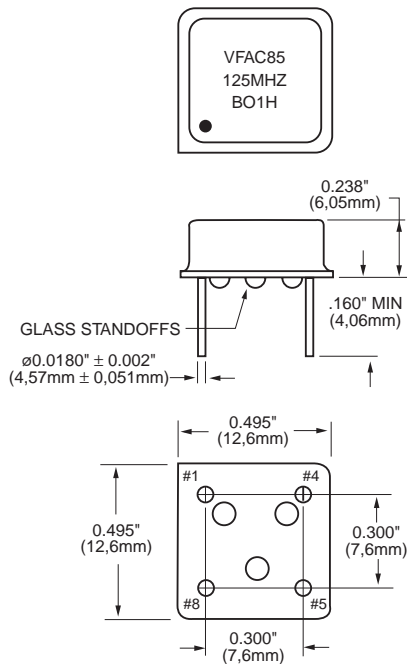
VFAC85

ACMOS/TTL Compatible Half Size DIP Clock Oscillators

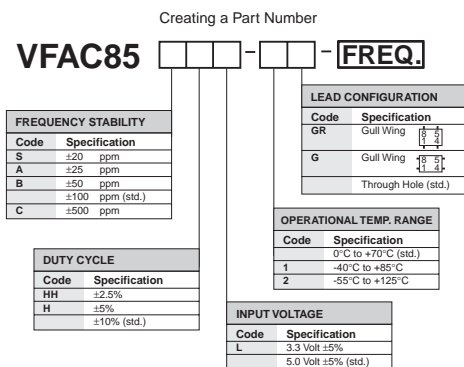


FEATURES

- Wide Frequency Range
- Extended Temperature Ranges
- Tight Symmetry Available
- Common Footprint
- Gull-Wing Package Available



All dimensions are typical unless otherwise specified.



Example: VFAC85SHHL-1GR-50MHz: Frequency Stability ±20ppm, Duty Cycle ±2.5%, Input Voltage 3.3 Volt ±5%, Operating Temperature -40°C to +85°C, Gull Wing, Frequency 50.000MHz.

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	Frequency Range	F	2		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	No load, 100MHz		60	mA	2	
	Load	10 TTL gates or 50pF MAX, AC coupled 50 Ohm termination recommended						
	Duty Cycle		@1.4V	40	50	60	%	3
	Rise/Fall Time	Tr/Tf	50Ω, 15pf		1	3	ns	20% to 80%
	Logic "1" Level	Voh	Max Load	0.9Vcc				
	Logic "0" Level	Vol	Max Load			0.1Vcc		
	Start-up Time	Ts			2	10	ms	
	Phase Jitter		1σ			1	ps	fj>1KHz
	Tristate Function	Input HIGH (>2.5V) or floating: Input LOW (<0.5V):		ACTIVE INFINITE IMPEDANCE				
Enable/Disable Time	Te/Td				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 rate less than 5 x 10 ⁻⁸ atm.cc/s of helium						
Electrical Connections	Pin Out	Pin #1-Tristate Control Pin #5-Output		Pin #4-Ground, Case Pin #8-Vcc				

Notes:

1. Standard frequency stability, others available.
2. Current is load and frequency dependent.
3. ±5% and ±2.5% duty cycle available.

All specifications are subject to change without notice.