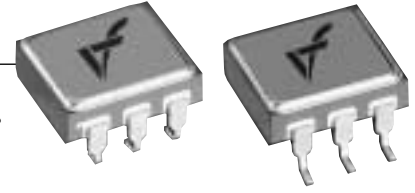


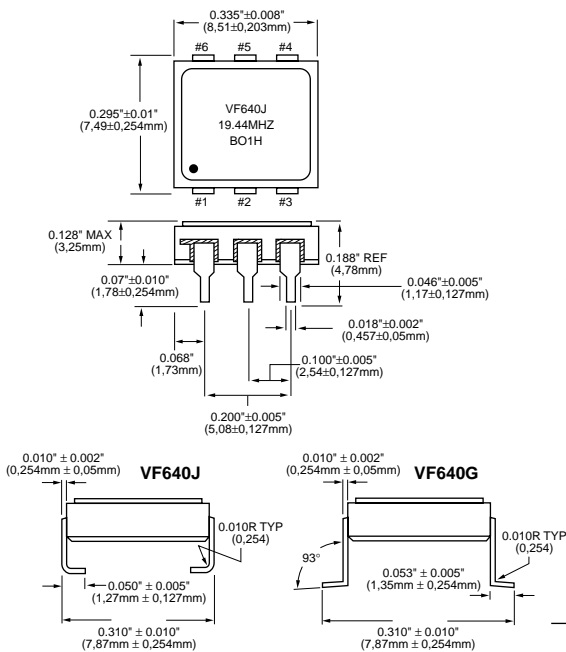
VF640J, VF640G Series

HCMOS/TTL Compatible Clock Oscillator Miniature 6 Pin Ceramic Package



FEATURES

- Very Low Phase Jitter
- Tristate Control Standard
- Tight Duty Cycle Available



All dimensions are typical unless otherwise specified.

Creating a Part Number

VF640 [] [] - [] - **FREQ.**

FREQUENCY STABILITY

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

DUTY CYCLE

Code	Specification
HH	±2.5%
H	±5%
	±10% (std.)

PIN CONFIGURATION

Code	Specification
J	J Bend
G	Gull Wing

OPERATIONAL TEMP. RANGE

Code	Specification
	0°C to +70°C (std.)
1	-40°C to +85°C

INPUT VOLTAGE

Code	Specification
L	3.3 Volt
	5.0 Volt (std.)

Example: VF640BHH-1J-19.44MHz: Frequency Stability ±25ppm, Duty Cycle ±2.5%, Input Voltage 3.3 Volt ±5%, Operating Temperature -40°C to +85°C, Frequency 19.44MHz.

	Absolute Max. Ratings							
	Parameter	Symb	Condition	Min	Typ	Max	Unit	Note
Electrical	Input Break Down Voltage	V _{cc}		-0.5		7.0	V	
	Storage Temp.	T _s		-55		+125	°C	
	Frequency Range	F		2.0		130	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}	15pF load			25	mA	2
	Load	10 TTL gates or 50pF Max						
	Duty Cycle		@1.4V	40	50	60	%	3
	Rise/Fall Time	Tr/Tf	10% to 90% 0.4V to 2.4V			4.0 1.5	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			1	ps	f _j >1KHz	
Tristate Function	Input HIGH (>2.5V) or floating: ACTIVE Input LOW (<0.5V): 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 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						
Hermetic Seal	Leak rate less than 5 x 10 ⁻⁸ atm.cc/s of helium							
Electrical Connections	Pin Out	Pin #1-N/C Pin #3-Ground, Case Pin #5-N/C		Pin #2-Tristate Control Pin #4-Output Pin #6-Vcc				

Notes:

1. Standard frequency stability, others available.
2. Current is load and frequency dependent.
3. Standard symmetry, lighter available.

All specifications are subject to change without notice.