

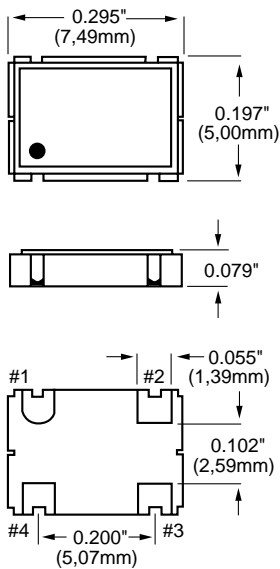
VF5



VF5 Series Miniature Ceramic SMD Tristate Oscillator HCMOS/TTL Compatible

FEATURES

- Miniature Ceramic Package
- Wide Frequency Range
- Industrial Temperature Available



All dimensions are typical unless otherwise specified.

Creating a Part Number

VF5 - - - **FREQ.**

FREQUENCY STABILITY	
Code	Specification
A	±25 ppm
B	±50 ppm
	±100 ppm
C	±500 ppm

OPERATIONAL TEMP. RANGE	
Code	Specification
	0°C to +70°C
1	-40°C to +85°C*

SYMMETRY	
Code	Specification
H	±5.0%
	±10.0%

Example: VF5SH-1-50.0MHz: Frequency Stability ±20ppm, Symmetry ±5%, Operating Temperature -40°C to +85°C, Frequency 50MHz.

		Parameter	Symb	Condition	Min	Typ	Max	Unit	Note	
Absolute Max. Ratings	Electrical	Input Break Down Voltage	V _{cc}		-0.5		7.0	V		
		Storage Temp.	T _s		-55		+125	°C		
		Frequency Range	F		1.8		170	MHz		
		Frequency Stability	ΔF/F	Overall	-100		100	ppm	1	
		Input Voltage	V _{cc}		4.75	5.00	5.25	V		
		Input Current	I _{cc}	15pF load		25 45 65			mA	to 25MHz to 50MHz to 80MHz
		Load	10-TTL gates or 15pF typical (50pF max.)							
		Duty Cycle		@50%V _{cc}	45	50	55	%		
		Rise/Fall Time	T _r /T _f	10% to 90%		5	10	ns		
		Logic "1" Level	V _{oh}	Loaded, overall	.9V _{cc}			V		
Logic "0" Level	V _{ol}	Loaded, overall			.1V _{cc}	V				
Tristate Function	Input HIGH (>2.5V) or floating: ACTIVE Input LOW (<0.5V): INFINITE IMPEDANCE									
Start-up Time	T _s			3	10	ms				
Enable/ Disable Time					100	ns				
Environmental and Mechanical	Electrical	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; 230°C, for 90s, Max.							
		Hermetic Seal	Leak rate less than 5 x 10 ⁻⁸ atm.cc/s of helium							
Electrical Connections	Electrical	Pin Out	Pin #1-Tristate Control Pin #3-Output				Pin #2-Case, GND Pin #4-V _{cc}			

Notes:

1. ±50ppm and ±25ppm stability available up to 50MHz for -10°C to 70°C operating temperature range.
2. For ±50ppm stability option add "B" to the part number, for ±25ppm add "A".
3. For industrial temperature range option (-40°C to 85°C) add "-1" to the part number.

All specifications are subject to change without notice.