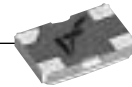


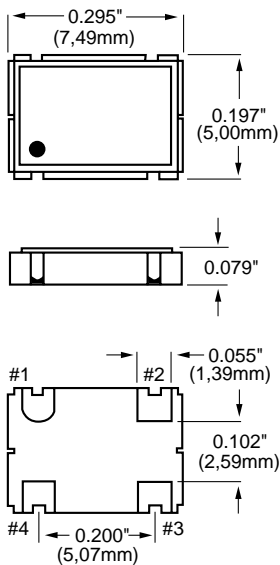
## VF1



## VF1 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

VF1  -  -  - **FREQ.**

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

OPERATIONAL TEMP. RANGE	
Code	Specification
	-10°C to +70°C (std.)
1	-40°C to +85°C

STAND BY	
Code	Specification
	Std.
E	Stand by

Example: VF1SH-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	Input Break Down Voltage	Vcc	-0.5		7.0	V		
	Storage Temp.	Ts	-55		+125	°C		
Electrical	Frequency Range	F	1.8		170	MHz		
	Frequency Stability	ΔF/F	Overall	-100		100	ppm	1
	Input Voltage	Vcc		4.75	5.00	5.25	V	
	Input Current	Icc	15pF load			20 35	mA	to 25MHz to 125MHz
	Load	10-TTL gates or 15pF typical						
	Duty Cycle		@50%Vcc	45	50	55	%	
	Rise/Fall Time	Tr/Tf	10% to 90%		5	10	ns	
	Logic "1" Level	Voh	Loaded, overall	.9Vcc			V	
	Logic "0" Level	Vol	Loaded, overall			.1Vcc	V	
	Enable Input Disable Input	2.2V (min) @0.4mA 0.8V (max) @0.4mA						
Start-up Time	Ts			3	10	ms		
Enable/ Disable Time					100	ns		
Environmental and Mechanical	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 <sup>-8</sup> atm.cc/s of helium							
Electrical Connections	Pin Out	Pin #1-Tristate Control Pin #3-Output		Pin #2-Case, GND Pin #4-Vcc				

Notes:

1. ±50ppm, ±25ppm and ±20ppm stability available up to 50MHz for -10°C to 70°C operating temperature range.
2. For Standby\* options only

\* See Glossary

All specifications are subject to change without notice.