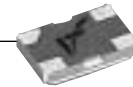


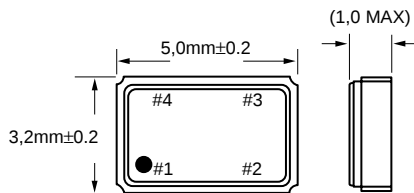
VFS5



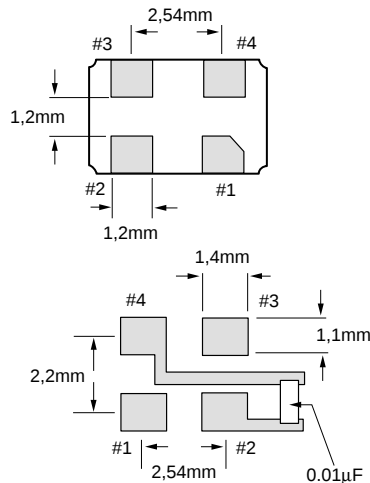
HCMOS/TTL Compatible Miniature Ceramic Tristate Oscillator (3,2 x 5,0mm)

FEATURES

- Wide Frequency Range
- Industrial Temperature Available
- Leadless Ceramic Package
- Industry Standard Footprint
- Ultra Miniature Package



Recommended Solder Pad Layout



All dimensions are typical unless otherwise specified.

Creating a Part Number

VFS5 [] [] - [] - [] FREQ.

FREQUENCY STABILITY		OPERATIONAL TEMP. RANGE	
Code	Specification	Code	Specification
B	±50 ppm		-10°C to +70°C (std.)
	±100 ppm (std.)	1	-40°C to +85°C

DUTY CYCLE		INPUT VOLTAGE	
Code	Specification	Code	Specification
	±10% (std.)		5.0 ±5% Volt (std.)

Example: VFS5BHH-1: Frequency Stability ±50ppm, Duty Cycle ±2.5%, Operational Temperature Range -40°C to +85°C.

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		50	MHz	
	Frequency Stability	ΔF/F	Overall conditions including: calibration, temp., aging 10 yrs, shock, vibration		±100	ppm	1
	Input Voltage	Vcc	4.75	5.00	5.25	V	
	Input Current	Icc	15pF load		75	mA	2
	Load	10TTL gates of 15pF					
	Duty Cycle	@50%Vcc	40		60	%	
	Rise / Fall Time	Tr / Tf		5	10	ns	
	Logic "1" Level	Voh	Max Load	0.9Vcc		V	
	Logic "0" Level	Vol	Max Load		0.1Vcc	V	
	Start-up Time	Ts		3	10	ms	
Environmental and Mechanical	Tristate Function	Input HIGH (>2.5V) or floating: ACTIVE Input LOW (<0.5V): INFINITE IMPEDANCE					3
	Enable / Disable Time				100	ns	
	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					
Electrical Connections	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					
	Pin Out	Pin #1–Tristate Control Pin #2–Ground, Case Pin #3–Output Pin #4–Vcc					

Notes:

1. Standard frequency stability (±50ppm, others available).
2. Current load, frequency dependent.

All specifications are subject to change without notice.