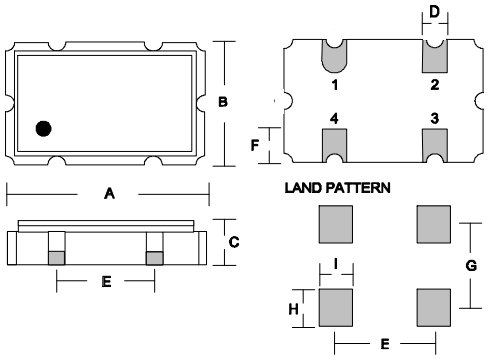
Surface Mount Oscillator

ECM VFAC3 Series

- Designed For Gigabit Ethernet Applications
- Very Low Phase Jitter
- Miniature Ceramic Package
- SMD Tri-state Oscillator
- Industrial Temperature Range Available
- EMI Shielded

Parameter	VFAC3	
Frequency Range	80.0MHz to 160.0MHz	
Frequency Stability	+/-100ppm	
Supply Voltage	5V +/-5% 3.3V +/-5%	Standard Option
Supply Current	60mA max Frequency and load dependant	15pf Load
Load	10TTL gates or 50pF AC Coupled 50R Termination recommended	
Duty Cycle	40 / 60 or 45/55	Specify
Rise & Fall Times	1.5nS max	
Logic "1" Level	0.9Vcc min	
Logic "0" Level	0.1Vcc max	
Enable Input Disable Input	Input HIGH (>2.5V) or floating ACTIVE Input LOW (<0.5V) INFINITE IMPEDANCE	
Start-up Time	10mS max	2mS Typ
Phase Jitter	1pS max	
Enable Disable Time	100nS 10nS available	Specify
Operating Temp	0^0C to +70^0C (-45^0 to +85^0C) Available	

Environmental & Mechanical	
Mechanical Shock	Mil STD 202 Method 213 Cond E
Thermal Shock	Mil STD 883 Method 1011 Cond A
Vibration	MIL-STD-883 Method 2007 Cond A
Soldering Condition	260^{0}C for 10s max: 230^{0}C for 90s max
Hermetic Seal	Leak rate less than 5x10^{-8} Atm.cc/s of helium



Part Numbering: VFAC3 B H L 1 125.0M

Series
Stability
S= 20ppm A= 25ppm
B= 50ppm Blank = 100ppm
Symmetry
HH=52.5/37.5 H= 45/55
Blank= 40/60
Supply Voltage L=3.3 Blank = 5V
Temperature Range
Blank= 0^0C to +70^0C
1= -40^0C to +85^0C
Frequency

Pin	1	2	3	4
Function	Tristate	GND/ Case	O/P	Vcc

A	B	C	D	E	F	G	H
7.70	5.20	2.29	1.14	5.08	1.27	3.98	1.39

Dimensions in mm

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