

Surface Mount Oscillator

www.DataSheet4U.com

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°C to +70°C (-45° to +85°C) 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°C for 10s max: 230°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°C to +70°C

1= -40°C to +85°C

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

ECM Electronics Limited, Penmaen House, Ashington, West Sussex, RH20 3JR, UK

Tel: +44(0)1903 892810: Fax: +44(0)1903 892738. Email: ecm@ecmelectronics.co.uk

Although we have attempted to accurately reflect the products we market. ECM reserve the right without prior notice to discontinue any product or make design changes we believe necessary. www.DataSheet4U.com

Issue 1