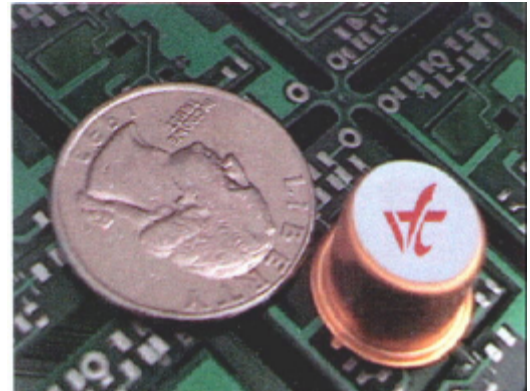


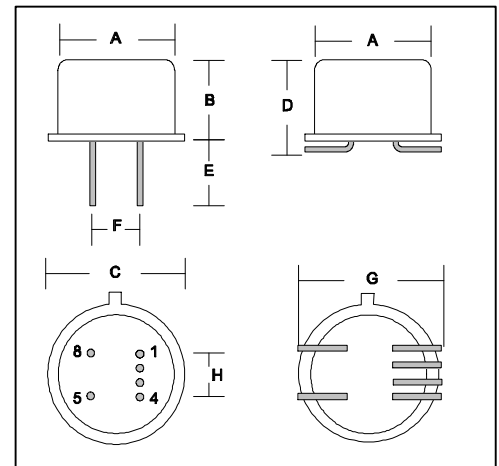
Micro Miniature OCXO

ECM VFT8 Series

- Smallest OCXO Available
- Extremely Low Power Consumption
- Very Fast Warm-up
- Low Phase Noise
- Low Aging
- Surface Mount Option (VFT8SM)



Parameter	VFT8	
Frequency Range	4.80 to 50.0MHz	
Frequency Stability	+/-100ppb max 5ppb max	vs Temp vs Supply
Aging per Day Per Year	5E-10 1E-7	After 30Days
Allan Variance	1E-11	0.1s to 10s
SSB Phase Noise		
10Hz	-120dBc/Hz	
100Hz	-145dBc/Hz	
10kHz	-160dBc/Hz	
Retrace	+/-20ppb max	After 30 mins
G-sensitivity	+/-1ppb/G max	Worst Direction
Input Voltage	5V +/-5%	12V Option
Input Current (Typ)	Vcc 5V Vcc12V	
Steady state 25°C	25 mA 12 mA	35 / 20 max
Steady State -30°C	70 mA 35 mA	
Start up Current	100 mA 200 mA	
Load	10K ohm //15pF	
Warm-up Time	35s typ to 0.1ppm	20s Vcc 12V
Output Waveform	3.3V HCMOS /TTL Compatible	
Control Voltage	0V to 4.1V	
Pulling Range	+/-0.5ppm to +/-1ppm	from nominal
Deviation Slope	0.4ppm/V	monotonic positive
Setability	1.0V min 3.0V max	@ 25°C Fnom



A	B	C	D	E	F	G	H
12.7	9.27	14.3	10.9	6.35	7.62	15.2	7.62

Dimensions in mm

Pin	1	2	3	4	5	6/7	8
	Vc	Vref	Tristate	Case Gnd	O/P	N/C	Vcc

VFT8H A 17 L 2 10.0M

Temperature A= 0°C to 50°C B= -10°C to 60°C C= 0°C to 70°C D= -20°C to 70°C E= -30°C to 70°C F= -45°C to 85°C		Stability 17= 1x10 ⁻⁷ 58= 5x10 ⁻⁸ 28= 2x10 ⁻⁸ 18= 1x10 ⁻⁸ 59= 5x10 ⁻⁹ YZ Yx10 ⁻²		Aging L= 1x10 ⁻⁹ /Day S= 5x10 ⁻¹⁰ /Day P= 2x10 ⁻¹⁰ /Day		Supply 5= 5V 2= 12V		Frequency
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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

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