50.8mm x 50.8mm Precision OCXO

Model: FPC5_ _AH Series **Preliminary** **Rev. 11/10/2006**

http://www.foxonline.com/need_a_sample.htm

Need a Sample

FEATURES

- 5.0V Operation
- HCMOS Output
- 50.8 x 50.8 x 20.5mm
- SC Cut Resonators

• PART NUMBER SELECTION

Learn More - Internet Required

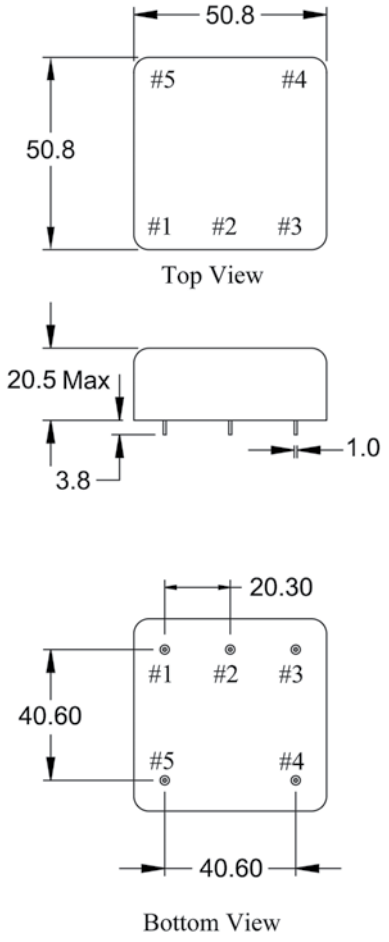
Part Number	Model Number	Frequency Stability vs. Temp	Operating Temperature	*Frequency Range (MHz)
687-Frequency-xxxxx	FPC501AH	±2 PPB	0 ~ +50 ºC	5.000 ~ 50.000
688-Frequency-xxxxx	FPC502AH	±5 PPB	-20 ~ +70 ºC	5.000 ~ 50.000
689-Frequency-xxxxx	FPC503AH	±10 PPB	-40 ~ +75 ºC	5.000 ~ 50.000

• ELECTRICAL CHARACTERISTICS

PARAMETERS	MAX (unless otherwise noted)
Frequency Range (Fo)	5.000 ~ 50.000 MHz*
Supply Voltage	+5 VDC ± 5%
Power (Warm-Up for 3 minutes)	3 Watts
Power Stabilized at +25ºC (Still air)	1 Watt Typical
Voltage (± 5% Change)	±0.5 PPB
Short Term Aging (3 weeks min operation)	± 0.5 PPB / Day
Long Term Aging (After 60 days operation)	± 50 PPB / Year
Allan Variance (1 sec samples)	10^{-11} / Sec
Phase Noise (Offset)	(Typical @ 10 MHz)
10 Hz	-120 dBc
100 Hz	-140 dBc
1 KHz	-155 dBc
10 KHz	-158 dBc
Warm-Up to within ± 100 PPB (Referenced to freq after 1/2 hour power on)	3 minutes
Frequency Adjust (0 to +5 VDC)	± 0.5 PPM Min.
Slope	Positive
Non-Linearity (0.8V-5.0V)	± 10%
Input Impedance	> 100 K
Output (@ 10 MHz)	HCMOS
(VOL)	10% VDD
(VOH)	90% VDD Min
Rise Time (10% ~ 90% VDD) (TR)	5 nS
Fall Time (90% ~ 10% VDD) (TF)	5 nS
Duty Cycle @ 50% VDD	50% ± 5%
Resonator Type	Coldweld, SC Cut

All specifications subject to change without notice.
*Specifications are applicable to 10 MHz units. Performance at other frequencies will vary from these values. Other frequencies and performance is available.
Contact Fox Custom Products Center (CPC) for details at 877-369-8041 or email at http://www.foxonline.com/email.htm

"Pin numbers are for reference only"



Unless otherwise specified, tolerances are ±0.26 All dimensions are in millimeters.

Pin Connections

#1) Trim
#2) N.C or trim reference Voltage
#3) Output
#4) GND / Case
#5) VDD

Case Material: Steel
Plating: Nickel

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