

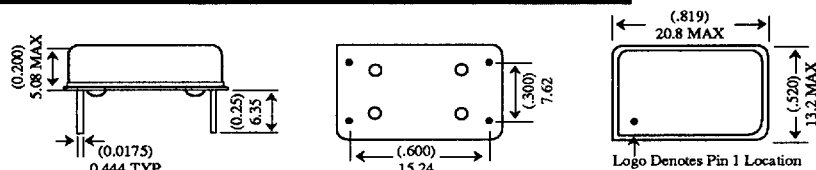
F6233 / ONE TIME PROGRAMMABLE CLOCK OSCILLATOR



The F6233 is designed to have the look and feel of a conventional HCMOS/TTL metal can oscillator with one primary advantage, the output frequency can be programmed one time to values in the range 0.9 ~ 90MHz. This expedites prototyping at custom frequencies while enhancing inventory reduction programs.

FEATURES

- Industry Standard Footprint
- Wide Frequency Range
- Tight Symmetry
- Output can be Tri-State Disabled
- Output Enabled if Pin 1 left floating
- Grounded metal cover reduces EMI
- Internal Bypass Capacitors - no external components required



Pin Connections
 #1 E/D or N.C. #8 Output
 #7 GND (Case) #14 VDD

Metric dimensions shall govern
 All dimensions are in millimeters & parenthetically in inches

• F6233 OPERATING CONDITIONS

Output Frequency Range (FO)	0.9 - 90	MHz
Temperature Range - Operating (TA)	0 ~ +70	°C
Storage (TSTG)	-55 ~ +125	°C
Supply Voltage (VDD)	5.0 ± 0.5	V

Preliminary

P/N	Reference Frequency
F6233	14.31818
F6233B	18.432

Enable / Disable Function

INH (Pin 1)	OUTPUT (Pin 8)
N.C. [a]	ACTIVE
V _{IH} ≥ 2.0 V	ACTIVE
V _{IL} ≤ 0.8 V	High Z

• ELECTRICAL CHARACTERISTICS (TA = 25°C, VDD = 5.0V, CL = max load)

PARAMETERS	FREQUENCY RANGE	CONDITION	MIN	TYP	MAX	UNITS
Frequency Stability		TA = 0 ~ 70°C From Programmed Freq.	-100		+100	PPM
Input Current (IDD)	0.9 ~ 90 MHz				55	mA
Output Symmetry	0.9 ~ 90 MHz	2.5V	40	50	60	%
Rise Time	10 ~ 90% VDD				3.5	ns
Fall Time	90 ~ 10% VDD				3.5	ns
Output Voltage (VOL)		IOL = 4 mA			0.5	V
(VOH)		IOH = -4 mA	4.5			
Output Current (IOL)		Logic '0' Level	4			mA
(IOH)		Logic '1' Level			-4	
Output Load	0.9 ~ 90 MHz	TTL load			2	TTL
	0.9 ~ 90 MHz	HCMOS load			25	pF
Leakage Current (IOZ)					10	μA
Enable/Disable Time					12	ns

• APPLICATIONS

General Purpose Oscillator - eliminate the stocking of multiple frequencies.

[a] An internal pullup resistor from pin 1 to pin 14 allows active output if pin 1 is floating.
 All specifications subject to change without notice. Rev. 3/18/94

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