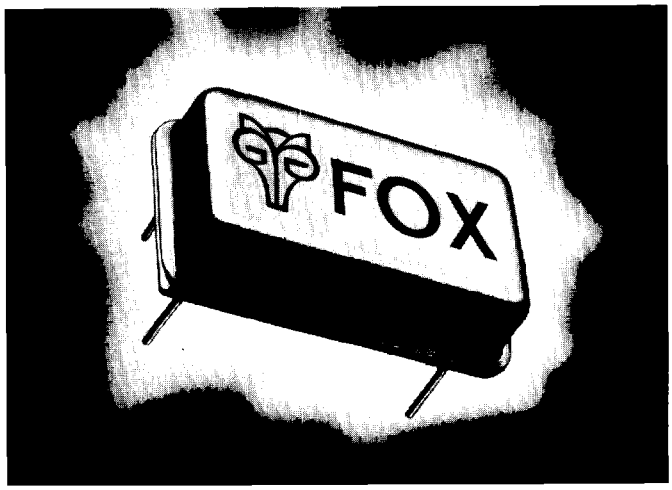
F5CE / HCMOS/TTL 14-PIN-DIP METAL OSCILLATOR

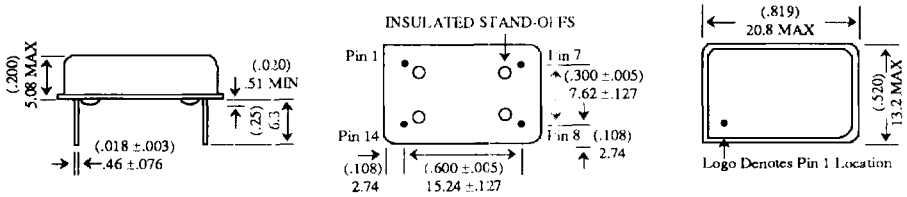


The F5CE is a cost effective performer in the 14-pin-dip package. This part is capable of driving up to 10-TTL loads or 15pF, and the low current draw of its HCMOS technology makes it suitable for low power applications.

The all-metal hermetically sealed package with pin 7 as case ground provides shielding to help minimize EMI radiation.

FEATURES

Cost Effective
Reliable All-purpose Component
Low Power Consumption
10TTL Load Capacity



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

Pin Connections

#1 N.C.	#8 Output
#7 GND (Case)	#14 +5 VDC

• F5CE SPECIFICATIONS

Frequency Range		(FO)	1.000 ~ 67.000	MHz
Temperature Range -	Operating	(TA)	0 ~ +70	°C
	Storage	(TSTG)	-55 ~ +125	°C
Supply Voltage		(VDD)	5.0 ±0.5	V

• PART NUMBER SELECTION

FREQUENCY STABILITY	PART NUMBER
±100PPM	F5CE
±50PPM	F6CE
±25PPM (selected frequencies)	F7CE

• ELECTRICAL CHARACTERISTICS (TA = 25°C, VDD =5.0V, CL= 15pF)

PARAMETERS	CONDITION	MIN	TYP	MAX	UNITS
Frequency Stability	All conditions *	-100		+100	PPM
Input Current	1.0000 ~ 25.000 MHz			20	mA
	25.000+ ~ 67.000 MHz			40	
Output Symmetry	50% VDD Level	40		60	%
Rise Time (TR)	10% ~ 90% VDD Level			10	ns
Fall Time (TF)	90% ~ 10% VDD Level			10	
Output Voltage (VOL)	'0' Logic Level			0.5	V
(VOH)	'1' Logic Level	4.5			
Output Current (IOL)	'0' Logic Level	16.0			mA
(IOH)	'1' Logic Level			-0.4	
Output Load	TTL			10	TTL
	HCMOS			15	pF
Start-up Time (TS)	0.0V ~ 5.0V		0.2 ~ 2.5	10	ms

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock, and vibration.

See page 53 for environmental/mechanical specifications, test circuits, and output waveforms.

All specifications subject to change without notice. Rev. 2/18/94

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