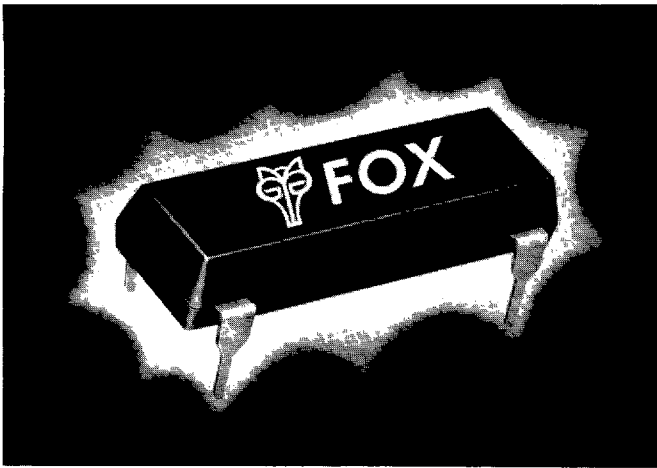


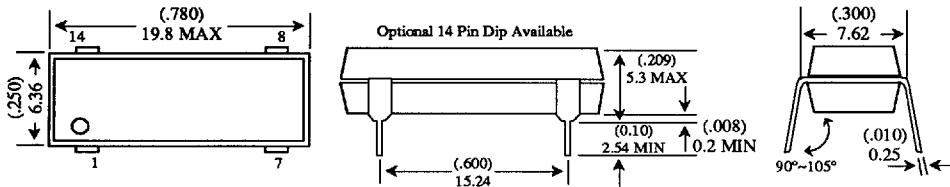
# P5C SERIES / HIGH SPEED CMOS / TTL CLOCK OSCILLATOR



The P5C is an all purpose plastic encapsulated oscillator, making it highly reliable and economical. This part drives up to 10 TTL loads, maintains low power consumption, and offers Tri-State Enable/Disable Function.

## FEATURES

- Low Profile
- Tri-State Enable Option
- Superior Quality
- TTL or CMOS Compatible
- Drives a Full 10 TTL Loads
- Low Power Consumption
- Economical Plastic Package
- Standard Pin Configuration
- High Reliability
- Large Manufacturing Capacity



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

## • P5C OPERATING CONDITIONS

Frequency Range	(Fo)	1.025 ~ 66.667	MHz
Temperature Range -	Operating (TA)	-10 ~ +70	°C
	Storage (TSTG)	See Table	°C
Supply Voltage	(VDD)	5.0 ± 0.5	V

## \* PART NUMBER SELECTION

Pin	P5C, -T, -H	-2, -2T, -2H
1	N.C.	E/D *
7	GND	GND
8	OUTPUT	OUTPUT
14	+5Vdc	+5Vdc

## \* Enable / Disable Function

INH	OUTPUT
OPEN	ACTIVE
'1' Level (VIH ≥ 2.0 V)	ACTIVE
'0' Level (VIL ≤ 0.8 V)	High Z

## • ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITION	P5C / P5C-2 [1]		P5C-T / P5C-2T [1]		P5C-H / P5C-2H [1]		UNITS
		MIN	MAX	MIN	MAX	MIN	MAX	
Frequency Range	----	1.025	26.000	26.000+	50.350	26.000	66.667	MHz
Frequency Stability **	-10 to +70°C	±50	±100	±50	±100	±50	±100	PPM
Storage Temperature		-55	+125	-55	+100	-55	+100	°C
Input Current (IDD)	No Load		25		50		35	mA
	Output Disabled (Iz)		(-2) 12		(-2T) 20		(-2H) 20	
Output Symmetry	2.5V	40	60	----	----	40	60	%
	1.4V	40	60	40	60	----	----	
Rise Time (Tr)	0.5V ~ 4.5V		8		----		7	ns
	0.4V ~ 2.4V		8		10		----	
Fall Time (Tf)	4.5V ~ 0.5V		8		----		7	
	2.4V ~ 0.4V		8		8		----	
Output Voltage (VOL)	IOL = 16mA		0.4		0.4		0.4	V
	VOH		4.5		2.4		4.5	
Output Current (IOL)	'0' Logic Level	16		16		4.0		mA
	(IOH)		-0.4		-0.4		-4.0	
Output Load	TTL		10		10		----	TTL
	CMOS		50		----		50	
Start-up Time (Ts)	0.0V ~ 4.5V		4		10		10	ms
Output Enable/Disable Time	(P5C -2, -2T, -2H)		100		100		100	ns
E/D Input Current (IIL)	(Pin 1) VIL ≤ 0.8V	-100	-15	-100	-15	-100	-15	μA
	(Pin 1) VIH > 2.0V		1.0		1.0		1.0	

\*\* 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.

[1] (-2, -2T, -2H) signifies enable/disable function (Pin 1).

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