

ECS-2100X Series

Request a Sample

8 Pin DIP Clock Oscillator



The ECS-2100X Series clock oscillator offers low current drain and is compatible with HCMOS/TTL logic. The metal package with pin #4 case ground acts as a shielding to minimize radiation.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- HCMOS/TTL logic compatible
- Wide frequency range
- Low power consumption
- Resistance weld package
- 3.3V operation (optional)
- PbFree/RoHS Compliant

Parameters		Frequency Range	Conditions	MIN	TYP	MAX	Units
Frequency (F _o)		1.000 ~ 150.000		1.000		150.000	MHz
Operating Temperature Range (T _{OPR})		1.000 ~ 150.000		0		+70	°C
Storage Temperature Range (T _{STG})		1.000 ~ 150.000		-55		+125	°C
Frequency Stability		1.000 ~ 150.000	All Conditions*	-100		+100	PPM
Input Current (I _{DD})		1.000 ~ 25.000			17	25	mA
		25.000 ~ 50.000			33	46	mA
		50.000 ~ 80.000			45	77	mA
		80.000 ~ 150.000			67	82	mA
Output Symmetry		1.000 ~ 80.000	50% V _{DD} level	45	50 ± 3	55	%
		80.000 ~ 150.000	50% V _{DD} level	40	50 ± 3	60	%
Rise Time (T _R)		1.000 ~ 150.000	10% ~ 90% V _{DD} level			5	nS
Fall Time (T _F)		1.000 ~ 150.000	90% ~ 10% V _{DD} level			5	nS
Output Voltage	(V _{oL}) (V _{он})	1.000 ~ 150.000	I _{OL} = 16 mA			0.5	V
		1.000 ~ 150.000	I _{OH} = -16 mA	4.5			V
Output Current	(I _{OL}) (I _{OH})	1.000 ~ 150.000	$V_{OL} = 0.5V$			16	mA
		1.000 ~ 150.000	$V_{OH} = 4.5V$			-16	mA
		1.000 ~ 150.000	TTL			10	TTL
Output Load		1.000 ~ 80.000	HCMOS			50	pF
		80.000 ~ 150.000	HCMOS			30	pF
Start-Up Time (T _s)		1.000 ~ 150.000	0.0V to 5.0V			10	mS
Supply Voltage (V _{DC})				+4.75	+5.0	+5.25	V_{DC}

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

Part Numbering Guide: Example ECS-2100AX-100

ECS Series Stability Frequency Abbreviations

ECS

2100 +5V HCMOS/TTL Half Size

 $AX = \pm 100 PPM$ $BX = \pm 50 PPM$ $CX = \pm 25 PPM$

100 = 10.000 MHz

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Package Dimensions (mm)

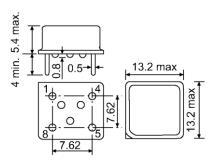


Figure 1) Side, Bottom, and Top views

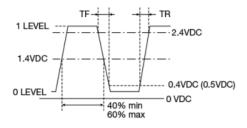


Figure 2) TTL Output Wave Form

Pin Connections				
#1	NC			
#4	GROUND			
#5	Output			
#8	+5V DC			

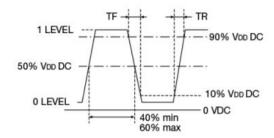


Figure 3) HCMOS Output Wave Form

Mouser Electronics

Authorized Distributor

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ECS:

ECS-2100AX-200 ECS-2100AX-9.8304MHZ ECS-2100AX-10.0MHZ ECS-2100AX-4.0MHZ ECS-2100AX-6.144MHZ ECS-2100AX-11.0592MHZ ECS-2100AX-19.6608MHZ ECS-2100AX-1.8432MHZ ECS-2100AX-16.257MHZ ECS-2100AX-5.0688MHZ ECS-2100AX-16.0MHZ ECS-2100AX-8.0MHZ ECS-2100AX-1.2288MHZ ECS-2100AX-14.31818MHZ ECS-2100AX-28.322MHZ ECS-2100AX-64.0MHZ ECS-2100AX-32.0MHZ ECS-2100AX-3.6864MHZ ECS-2100AX-30.0MHZ ECS-2100AX-9.216MHZ ECS-2100AX-2.0MHZ ECS-2100AX-14.7456MHZ ECS-2100AX-1.0MHZ ECS-2100AX-3.579545MHZ ECS-2100AX-40.0MHZ ECS-2100AX-12.0MHZ ECS-2100AX-18.432MHZ ECS-2100AX-66.666MHZ