

ECS-500X Series

The ECS-500X temperature compensated oscillator covers a wide frequency range and offers a highly stable output over temperature. An internal trimmer is a standard feature to tune the TCXO to its nominal frequency.

Request a Sample





- High stable output over temperature
- Wide frequency range
- RoHS Compliant (Pb Free)TTL/CMOS Compatible

	Conditions	ECS-500X			Units	
Parameters		MIN	TYP	MAX		
Frequency Range		8.000		80.000	MHz	
Operating Temperature		-20		+70	°C	
Storage Temperature		-30		+80	°C	
Input Voltage (V _{cc})		4.5V	5.0V	5.5V	VDC	
	Option A	-7.0		+7.0	PPM	
Frequency Stability	Option B	-5.0		+5.0	PPM	
	Option C	-3.5		+3.5	PPM	
	8.0 ~ 30.0 MHz			15	mA	
Input Current	30.0 ~ 80.0 MHz			60	mA	
0	At 1.4 VDC Level	40/60	50 ±4	60/40	%	
Symmetry	At ½ V _{CC} Level	45/55	50 ±2	55/45	%	
	8.0 ~ 30.0 MHz			13	ns	
Rise Time	30.0 ~ 80.0 MHz			8	ns	
	8.0 ~ 30.0 MHz			11	ns	
Fall Time	30.0 ~ 80.0 MHz			6	ns	
// All I	TTL			+0.4	V	
"0" Level	CMOS			+0.5	V	
<i></i>	TTL	+2.4			V	
"1" Level	CMOS	V _{cc} -0.5			V	
	TTL			10	TTL gates	
Output Load	CMOS			15	pF	
	8.0 ~ 30.0 MHz			10	ns	
Start-up Time	30.0 ~ 80.0 MHz			7	ns	
Frequency Adjustment	Internal Trimmer	±5			PPM	

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

Part Numbering Guide: Example ECS-500X-144-B

ECS	-	Series	-	Frequency Abbreviations - Frequency Stability	
ECS		500X		144 = 14.4 MHz	B = ± 5.0 PPM

* Consult Factory for availability of ±1 ppm -40 ~ 85°C



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Package Dimensions (mm)

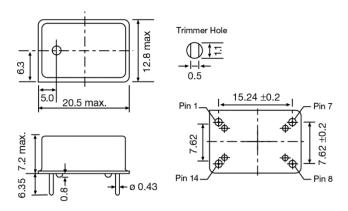


Figure 1) Top, Side, and Bottom views

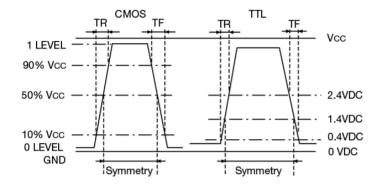


Figure 3) Output Waveform

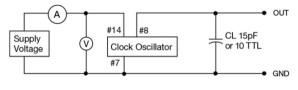


Figure 2) Test Circuit

Pin Connections			
#1	N/C		
#7	Ground		
#8	Output		
#14	+V _{CC}		