

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

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	Conditions	ECS-500X			Units
Parameters		MIN	ТҮР	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
Innut Current	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	%
D. T.	8.0 ~ 30.0 MHz			13	ns
Rise lime	30.0 ~ 80.0 MHz			8	ns
	8.0 ~ 30.0 MHz			11	ns
	30.0 ~ 80.0 MHz			6	ns
"O" L	TTL			+0.4	V
"U" 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
o	8.0 ~ 30.0 MHz			10	ns
Start-up Time	30.0 ~ 80.0 MHz			7	ns
Frequency Adjustment	Internal Trimmer	±5			PPM
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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



ECS-500X Series TCXO



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}		