

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China











- ► Low current consumption
- Built in divider circuit
- 8-pin DIP Package
- ► Pb Free/RoHS Compliant

DISCONTINUED

ECS-300CX

DUAL OUTPUT CMOS CLOCK OSCILLATOR

The ECS-300CX utilizes a built in divider circuit to provide a second divided output. The CMOS based oscillator features low current consumption in a standard 8-pin DIP package.

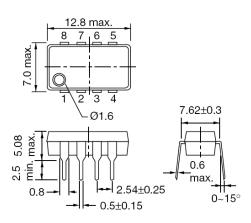
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS		ECS-300CX	UNITS		
PARAMETERS	CONDITIONS	MIN	TYP MAX		UNITS	
Fraguency Pange	Primary Output	12.000		24.000	MHz	
Frequency Range	Divided Output	0.048875		12.000	MHz	
Frequency Stability *	All Conditions			± 100	ppm	
Operating Temperature		-10		+70	°C	
Storage Temperature		-55		+125	°C	
Input Voltage	Vcc	+3.0	+5.0	+5.5	VDC	
Input Current				20	mA	
Output Cummatry	Primary Output	40/60		60/40	%	
Output Symmetry	Divided Output	48/52		52/48	%	
Rise and Fall Times				15	ns	
Output Voltage	VOL			Vcc x 0.1	VDC	
Output Voltage	VOH	Vcc x 0.9			VDC	
Output Load	CMOS			50	pF	
Startup time				1.5	ms	

POSSIBLE FREQUENCY DIVISIONS BY PART NUMBER

ECS PART NUMBER	fo CLOCK Pin 1	fo/2" (Divided Output) PIN 2							
		1/2 * 1	1/2 * 2	1/2 * 3	1/2 * 4	1/2 * 5	1/2 * 6	1/2 * 7	1/2 * 8
ECS-300CX-120	12.000 MHz	6.000 MHz	3.000 MHz	1.500 MHz	750 KHz	375 KHz	187.5 KHz	93.75 KHz	46.875 KHz
ECS-300CX-160	16.000 MHz	8.000 MHz	4.000 MHz	2.000 MHz	1.000 MHz	500 KHz	250 KHz	125 KHz	62.5 KHz
ECS-300CX-240	24.000 MHz	12.000 MHz	6.000 MHz	3.000 MHz	1.500 MHz	750 KHz	375 KHz	187.5 KHz	93.75 KHz

DIMENSIONS (mm)



Pin Connections				
Output				
Divided Output				
Standby				
Ground				
A (Divider selection)				
B (Divider selection)				
C (Divider selection)				
Vcc				

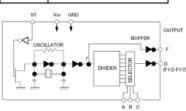


Figure 2) Block Diagram

Figure 1) Top, Side and End views

PART NUMBERING GUIDE: Example ECS-300CX-120

ECS	-	Series	-	Frequency Abbreviation
		300CX		120 = 12.000 MHz

* Note: Inclusive of 25°C tolerance	operating to	emperature,input voltag	e change, loa	ad change, shocl	k and vibration.

Input		Output				
Divid	er Sele	ection	ST	Pin 1(Primary Output)	Pin 2(Divided Output)	
С	В	Α	5	T III T(Filliary Output)	1 111 Z(Divided Output)	
L	L	L	Η	fo clock	fo ½ * 1 clock	
L	L	Η	Η	fo clock	fo ½ * 2 clock	
L	Н	L	Η	fo clock	fo ½ * 3 clock	
L	Н	Η	Η	fo clock	fo ½ * 4 clock	
Н	L	L	Η	fo clock	fo ½ * 5 clock	
Н	L	Η	Η	fo clock	fo ½ * 6 clock	
Н	Н	L	Η	fo clock	fo ½ * 7 clock	
Н	Н	Н	Н	fo clock	fo ½ * clock	
Х	Χ	Χ	L	L	Ĺ	

AVAILABLE PART NUMBERS					
ECS P/N	Primary Frequency				
ECS-300CX-120	12.000 MHz				
ECS-300CX-128	12.800 MHz				
ECS-300CX-143	14.31818 MHz				
ECS-300CX-160	16.000 MHz				
ECS-300CX-163.8	16.384 MHz				
ECS-300CX-184	18.432 MHz				
ECS-300CX-200	20.000 MHz				
ECS-300CX-240	24.000 MHz				