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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





ECS-P8F3X/P8F5X SMD PROGRAMMABLE OSCILLATOR

ECS-P8F3X (3.3V) and ECS-P8F5X (5V) J-Lead SMD PLL based programmable crystal oscillators.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECS-P8F3X (+3.3V)			ECS-P8F5X (+5V)			
PARAMETERS		MIN	ΤΥΡ	MAX	MIN	ΤΥΡ	MAX	UNITS
Frequency Range		1.000		125.000	1.000		150.000	MHz
	Standard	-10		+70	-10		+70	°C
Operating Temperature	Extended (N Option)	-40		+85	-40		+85	°C
Storage Temperature		-55		+125	-55		+125	°C
Supply Voltage		+2.97	+3.3	+3.63	+4.5	+5.0	+5.5	VDC
··· • •	Option A			± 100			± 100	ppm
Frequency Stability *	Option B			± 50			± 50	ppm
Input Current				28			45	mA
Output Disable Current	Pin 1 = VIL			16			30	mA
Output Symmetry	@ 50% Vcc level			40/60			40/60	%
Rise and Fall Times	20% Vcc to 80%Vcc level			4			4	ns
1.144 m	1.0 ~ 33.0 MHz		±100	±250		±100	±250	pS p-p
Jitter	>33.1 MHz		±50	±100		±50	±100	pS p-p
"0" level	VOL			0.4			0.4	VDC
"1" level	VOH	2.7			Vcc-0.5			VDC
	1.0 ~ 50.0 MHz			30			50	pF
Output Load (HCMOS)	> 50.1 MHz			15			15	pF
Enable/Disable Time				150			100	ns
Start-Up Time				10			10	ms
Aging	@ +25°C ±3°C, First year			± 5			± 5	ppm

* Note: Inclusive of 25°C tolerance, operating temperature, input voltage change, load change, shock and vibration.

DIMENSIONS (mm)

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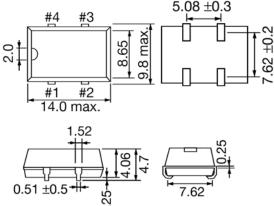


Figure 1) Top, Side, Bottom and End views

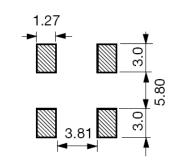


Figure 2) Suggested Land Pattern

ECS-P8F3X (3.3V) Tri-State Control Voltage				
Pad 1	Pad 3			
Open	Oscillation			
2.0V Min.	Oscillation			
0.7V Max.	No Oscillation			

ECS-P8F5X (5V) Tri-State Control Voltage				
Pad 1	Pad 3			
Open	Oscillation			
2.0V Min.	Oscillation			
0.8V Max.	No Oscillation			

Pin Connections				
Pin #1	Tri-State			
Pin #2	Ground			
Pin #3	Output			
Pin #4	Vcc			

PART NUMBERING GUIDE: Example ECS-P8F3X-20.000-AN

ECS	- Series -	Frequency -		Stability	Temperature		
	P8F3X = +3.3V P8F5X = +5.0V	20.000 = 20.000 MHz		A = ± 100 ppm B = ± 50 ppm	 Blank = -10 ~ +70°C N = -40 ~ +85°C		