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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!



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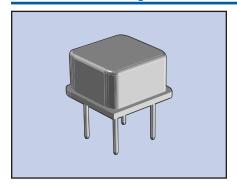
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The ECS-P83 (3.3V) and ECS-P85 (5V) 8 pin dip DIP is a twice programmable crystal controlled oscillator. The standard 8 pin DIP footprint is ideal for existing PC boards.

FEATURES

- Programmable (1 time)
- 3.3V & 5V options
- PLL technology
- 8 pin DIP footprint
- Extended temp range

PART NUMBERING GUIDE "EXAMPLE"

PART NUMBER	SERIES		FREQUENCY MHz)		STABILITY	EXTENDE	TEMP (OPTION)
ECS	P83 -	_	16.312	-	Α	_	N

Sample Part Number: ECS-P83-16.312-AN

OPERATING CONDITIONS/ELECTRICAL CHARACTERISTICS

DADAMETERS	COMPLETIONS	ECS-P83 (3.3V)				UNITS		
PARAMETERS	CONDITIONS	MIN	TYP	MAX	MIN	TYP	MAX	UNITS
FREQUENCY RANGE		1.000		125.000	1.000		150.000	MHz
EDECLIENCY STABILITY*	Option A			±100			±100	PPM
FREQUENCY STABILITY*	Option B			±50			±50	PPM
OPERATING TEMPERATURE	Standard	0		+70	0		+70	°C
	Extended (Option N)	-40		+85	-40		+85	°C
STORAGE TEMPERATURE		-55		+125	-55		+125	°C
INPUT VOLTAGE (Vcc)		+2.97	+3.3	+3.63	+4.5	+5.0	+5.5	VDC
INPUT CURRENT				28			45	mA
OUTPUT SYMMETRY	at 1/2 Vcc LEVEL	40/60		60/40	40/60		60/40	%
RISE AND FALL TIMES	20% Vcc to 80% Vcc			4			4	ns
JITTER	1.0 ~ 33.0 MHz		±100	±250		±100	±250	pS
JITIEN	> 33.1 MHz		±50	±100		±50	±100	pS
"0" LEVEL				0.4			0.4	VDC
"1" LEVEL		2.7			Vcc - 0.5			VDC
LOAD (HOMOC)	1.0 ~ 50.0 MHz			30			50	pF
LOAD (HCMOS)	> 50.1 MHz			15			15	pF
ENABLE/DISABLE TIME				150			100	ns
START-UP TIME				10			10	ms

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

PACKAGE DIMENSIONS (mm)

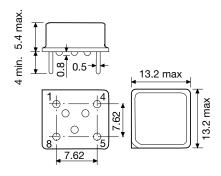


Figure 1) Side, Bottom and Top views

ECS-P83 (3.3V) TRI-STATE CONTROL VOLTAGE					
PIN #1 = OPEN	#3 = OUTPUT				
PIN #1 = +0.7V MIN	#3 = OUTPUT				
PIN #1 = +0.2V MAX	#3 = HIGH IMPEDANCE				

ECS-P85 (5V) TRI-STATE CONTROL VOLTAGE					
PIN #1 = OPEN	#3 = OUTPUT				
PIN #1 = +2.0V MIN	#3 = OUTPUT				
PIN #1 = +0.8V MAX	#3 = HIGH IMPEDANCE				

PIN CONNECTIONS				
#1	TRI-STATE			
#4	GND			
#5	OUTPUT			
#8	Vcc			