

The ECS-3955M (5V) is a high capacitive load version of our miniature, crystal controlled low current clock oscillator in a ceramic SMD package. The low profile package is ideal for PC's, portable applications and PCMCIA cards.

Request a Sample

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- High capacitive load options
- Low Power Consumption
- Tri-State Function
- Seam welded package
- Tape & Reel (1,000 pcs STD)

Parameters	Conditions	ECS-3955M (5V)			Units
		MIN	TYP	MAX	
Frequency Range		1.800		70.000	MHz
Temperature Range	Operating	-10		+70	°C
	Storage	-55		+125	°C
Supply Voltage		+4.5	+5.0	+5.5	V DC
Frequency Stability*	Standard			±100	PPM
	Option (B)			±50	PPM
	Option (C)			±25	PPM
Input Current	1.8 ~ 36.0 MHz			30	mA
	36.1 ~ 70.0 MHz			65	mA
Output Symmetry	@ ½ VCC Level	40/60		40/60	%
	@ ½ VCC Level (T Option)	45/55		45/55	%
Rise and Fall Times			7		nS
Output Voltage	VOL			VCC x 0.1V	V DC
	VOH	VCC x 0.9V			V DC
Load	HCMOS			50	pF
Start-Up Time	1.8 ~ 36.0 MHz			5	mS
	36.0 ~ 70.0 MHz			10	mS
Output Current (IOL) (IOH)	VOL			16	mA
	VOH			-16	mA
Enable/Disable Time			100		ns

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

Part Numbering Guide: Example ECS-3955M-500-B-TR

ECS - Series - Frequency Abbreviation - Stability Tolerance - Temperature - Output Symmetry - Packaging

ECS

3955M
(5x7mm, +5V)

500 = 50 MHz

A = ±100 ppm
B = ±50 ppm
C = ±25 ppm
D = ±20 ppm

Blank = -10 ~ 70°C
M = -20 ~ +70°C
N = -40 ~ +85°C
U = -55 ~ +125°C

Blank = 60/40
T = 45/55

TR = Tape & Reel
1K/Reel

Package Dimensions (mm)

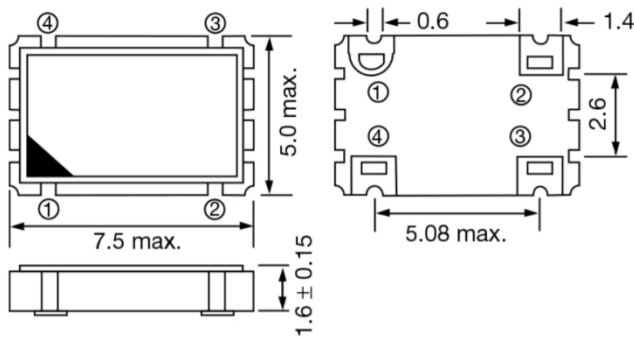


Figure 1) Top, Side, and Bottom views

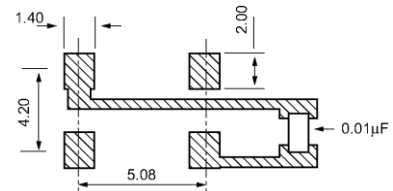


Figure 2) Land Pattern

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

** An internal pullup resistor from pin 1 to 4 allows active output if pin 1 is left open.
 Note: A 0.01 μ F bypass capacitor should be placed between VCC (Pin 4) and Ground (Pin 2) to minimize power line noise.

ECS-3955 Standby Control Voltage	
Pin #1 = Open	#3 = Oscillation
Pin #1 = +2.2V Min	#3 = Oscillation
Pin #1 = 0.8V Max	#3 High Impedance