

The ECS-327MVATX is a miniature SMD 32.768 kHz Oscillator with MultiVolt™ capability of 1.6 ~ 3.6 V. Available in 5 industry standard Packages the ECS-327MVATX is ideal for RTC, Low Power/Portable, Industrial, and IoT applications.

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- Low Current
- Extended Temp Range
- RoHS Compliant
- MultiVolt™ 1.6 ~ 3.6V Supply Voltage
- Tight Stability
- Compatible with 1.8V, 2.5V or 3.3V Power Supply

PARAMETERS	CONDITIONS	ECS-327MVATX			UNITS
		MIN	TYP	MAX	
Frequency Range			32.768		kHz
* Frequency Stability	-40 ~ +85°C (CN Opt)			±25	ppm
Supply Voltage		1.6		3.6	V
Supply Current				200	µA
Output Load	CMOS			15	pF
Output Voltage	VOH	0.9 Vdd			V
	VOL			0.1 Vdd	V
Tri-State Function	"1" VIH ≥ 0.7* Vdd = Oscillation				
	"0" VIL ≤ 0.3* Vdd = High Impedance				
Rise & Fall time	10% Vdd – 90% Vdd			30	ns
Start Up Time				5	mS
Phase Jitter (RMS)				1	pS
Duty Cycle	@ ½ Vdd			45/55	%
Standby Current				10	µA
Aging	@ +25°C			±3	ppm
Operating Temp*	(N Opt)	-40		+85	°C
Storage Temp		-55		+125	°C

PART NUMBERING GUIDE: Example ECS-327MVATX-2-CN-TR

ECS	-	SERIES	PACKAGE SIZE	-	* STABILITY	TEMP RANGE -	PACKAGING
-----	---	--------	--------------	---	-------------	--------------	-----------

ECS

327MVATX
32.768 kHz
MultiVolt™ Oscillator

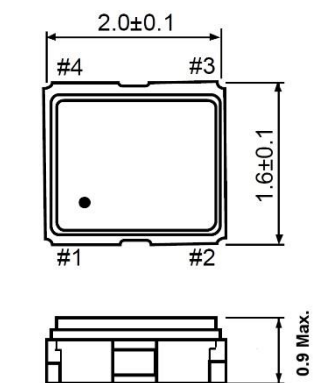
1 = 2.0 x 1.6 mm
2 = 2.5 x 2.0 mm
3 = 3.2 x 2.5 mm
5 = 5.0 x 3.2 mm
7 = 7.0 x 5.0 mm

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

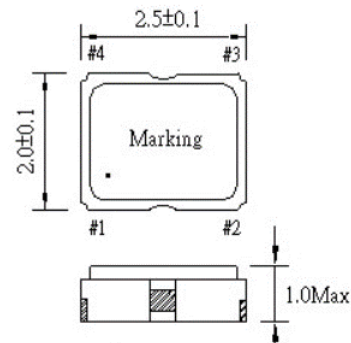
L = -10 ~ +70°C
M = -20 ~ +70°C
N = -40 ~ +85°C

-TR = 1K
-TR3 = 3K
Qty/Reel

1 = 2.0 x 1.6 Package



2 = 2.5 x 2.0 Package



3 = 3.2 x 2.5 Package

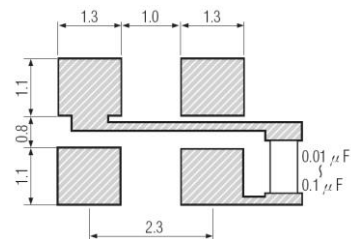
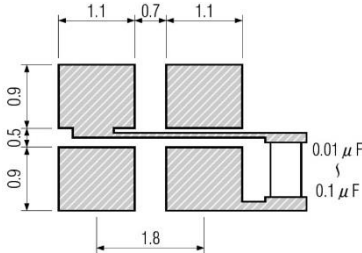
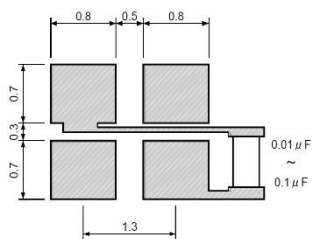
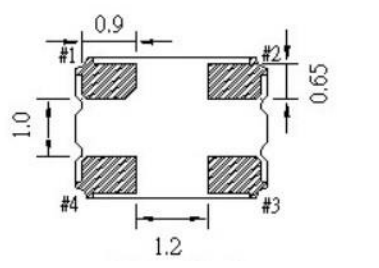
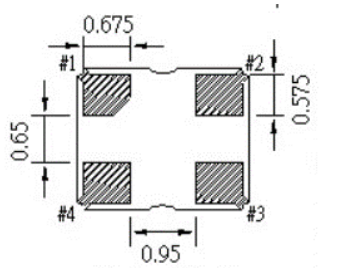
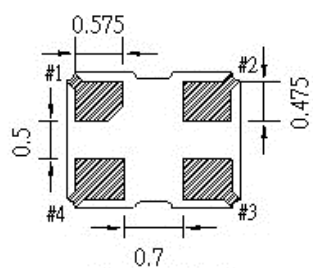
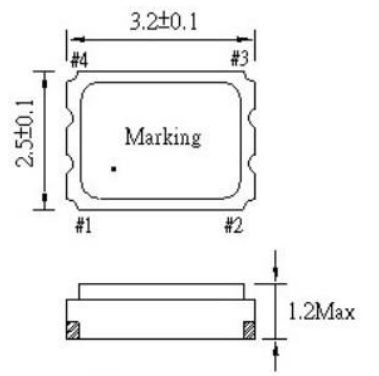


Figure 1) Top, Side, Bottom views and Suggested Land

Figure 2) Top, Side, Bottom views and Suggested Land

Figure 3) Top, Side, Bottom views and Suggested Land

PAD CONNECTIONS

1	Tri-state
2	Gnd
3	Output
4	Vdd

5 = 5 x 3.2 Package

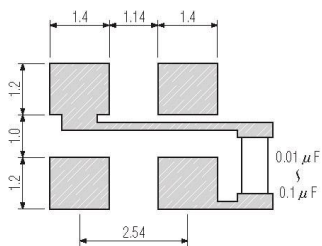
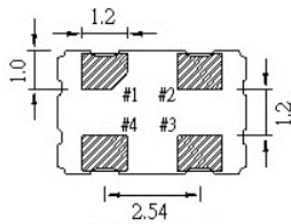
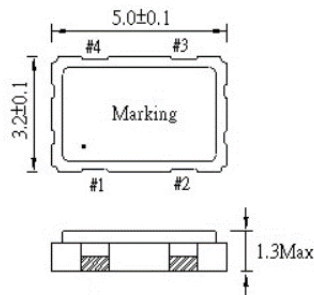


Figure 4) Top, Side, Bottom views and Suggested Land

7 = 7 x 5 Package

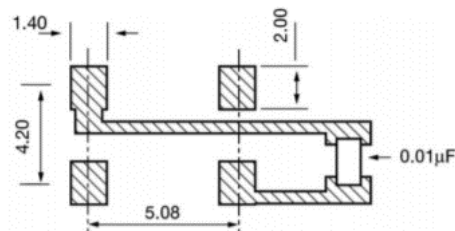
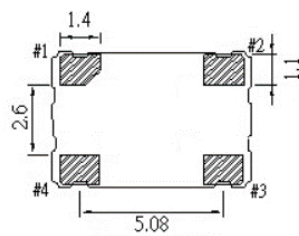
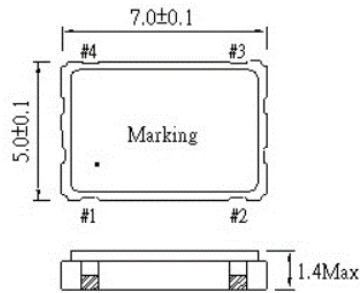


Figure 5) Top, Side, Bottom views and Suggested Land

PAD CONNECTIONS

1	Tri-state
2	Gnd
3	Output
4	Vdd

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Standard Clock Oscillators](#) category:

Click to view products by [ECS Inc](#) manufacturer:

Other Similar products are found below :

[601252](#) [F335-12](#) [F335-25](#) [F535L-33.333](#) [F535L-50](#) [ASV-20.000MHZ-LR-T](#) [ECS-2018-160-BN-TR](#) [EL13C7-H2F-125.00M](#) [MXO45HS-2C-66.6666MHZ](#) [SiT8209AI-32-33E-125.000000](#) [SM4420TEV-40.0M-T1K](#) [F335-24](#) [F335-40](#) [F535L-10](#) [F535L-12](#) [F535L-16](#) [F535L-24](#) [F535L-27](#) [F535L-48](#) [PE7744DW-100.0M](#) [CSX-750FCC14745600T](#) [ASF1-3.686MHZ-N-K-S](#) [XO57CTECNA3M6864](#) [ECS-2100A-147.4](#) [601251](#) [EP16E7E2H26.000MTR](#) [SIT8918AA-11-33S-16.000000G](#) [XO3003](#) [9120AC-2D2-33E212.500000](#) [9102AI-243N25E100.00000](#) [8208AC-82-18E-25.00000](#) [ASDK2-32.768KHZ-LR-T3](#) [8008AI-72-XXE-24.545454E](#) [8004AC-13-33E-133.33000X](#) [AS-4.9152-16-SMD-TR](#) [ASFL1-48.000MHZ-LC-T](#) [SIT8920AM-31-33E-25.0000](#) [DSC1028DI2-019.2000](#) [9121AC-2C3-25E100.00000](#) [9102AI-233N33E100.00000X](#) [9102AI-233N25E200.00000](#) [9102AI-232H25S125.00000](#) [9102AI-133N25E200.00000](#) [9102AC-283N25E200.00000](#) [9001AC-33-33E1-30.000](#) [3921AI-2CF-33NZ125.000000](#) [5730-1SF](#) [PXA000010](#) [SIT1602BC-83-33E-10.000000Y](#) [8003AI-12-33S-40.00000Y](#)