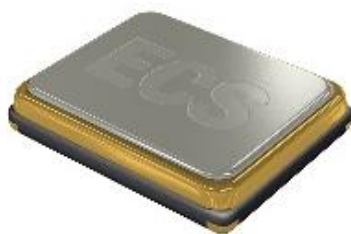


The ECS-5032MV is a miniature SMD HCMOS Oscillator with MultiVolt™ capability of 1.6 ~ 3.6 V. The 5.0 x 3.2 x 1.3 mm ceramic package is ideal for Low Power/Portable, Industrial, and IoT applications.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-5032MV SMD XO



- 5.0 x 3.2 mm Footprint
- Extended Temp Range
- RoHS Compliant
- Wide Supply Voltage
- Low Jitter
- Compatible with 1.8V, 2.5V or 3.3V Power Supply

DIMENSIONS (mm)

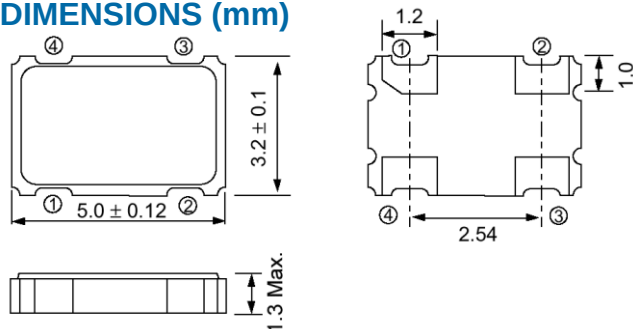


Figure 1) Top, Side, and Bottom views

PART NUMBERING GUIDE: Example ECS-5032MV-250-BN-TR

ECS	-	SERIES	FREQUENCY ABBREVIATION	-	* STABILITY	TEMP RANGE -	PACKAGING
-----	---	--------	------------------------	---	-------------	--------------	-----------

ECS

5032MV
5.0 x 3.2 mm
MultiVolt™ Oscillator

250 = 25.000 MHz
See Developed
Frequencies Pg. 2

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

M = -20 ~ +70°C
N = -40 ~ +85°C
P = -40 ~ +105°C

-TR = Tape & Reel
1K/Reel

PARAMETERS	CONDITIONS	ECS-5032MV			UNITS
		MIN	TYP	MAX	
Frequency Range		0.750		160.00	MHz
* Frequency Stability	-40 ~ +85°C (BN Opt)			±50	ppm
Supply Voltage		1.6		3.6	V
Output Load	CMOS			15	pF
Output voltage Level	VOL: 10% Vdd max. / VOH: 90% Vdd min. V DC				
Rise & Fall time	10% Vdd – 90% Vdd			7	ns
Start Up Time	@ 90% Vdd			5	mS
Phase Jitter	12 kHz to 20 MHz			1	pS
Duty Cycle	@ ½ Vdd			45/55	%
Standby Current				10	µA
Operating Temp*		-40		+85	°C
Storage Temp		-55		+125	°C

CURRENT CONSUMPTION mA Max

FREQ.	~ 19 MHz	~ 39.9 MHz	~ 50 MHz	~ 60 MHz	~ 100 MHz	~ 160 MHz
+1.8V	2.5	3.0	3.5	4.0	35.0	40.0
+2.5V	4.5	5.5	6.5	7.0	35.0	40.0
+3.0V	5.5	6.5	7.5	8.0	35.0	40.0
+3.3V	6.0	7.0	8.0	8.5	35.0	40.0

PAD CONNECTIONS

1	Tri-state
2	Gnd
3	Output
4	Vdd

Tri State Function

Pin 1	Output
0.7 * Vdd Min or NC	Active
0.3 * Vdd Max.	High Impedance

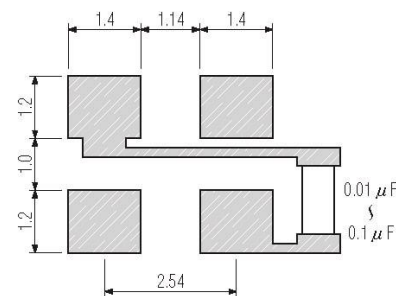


Figure 2) Suggested Land Pattern

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[SIT8918AA-11-33S-50.000000G](#) [SM4445TX-33.333M-T250](#) [F335-24](#) [F535L-12](#) [F535L-24](#) [SiT8503AI-18-33E-0.200000X](#)
[SIT9122AI2C233E300.000000X](#) [9120AC-2D2-33E212.500000](#) [ASFL1-48.000MHZ-LC-T](#) [SIT8920AM-31-33E-25.0000](#) [9102AI-](#)
[233N33E100.00000X](#) [9102AI-232H25S125.00000](#) [9102AI-133N25E200.00000](#) [3921AI-2CF-33NZ125.000000](#) [EC3620ETTS-24.000M TR](#)
[SG-210SEB 3.6864MB0](#) [SIT1602BC-83-33E-10.000000Y](#) [8003AI-12-33S-40.00000Y](#) [1602BI-13-33S-19.200000E](#) [8208AI-2F-18E-](#)
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[CCHD-575-25-24.000](#) [SG3225HBN 100.000000M-CJGA3](#) [SG3225HBN 156.250000M-CJGA3](#) [9120AI-2B2-25E200.0000](#) [9365AC-1E2-](#)
[33E156.250000X](#) [9365AC-1E2-33E156.253906X](#) [KK3270021](#) [HX7124001Q](#) [9003AC-23-18DQ-40.00000Y](#) [SG7050CAN 26.000000M-](#)
[TJGA3](#) [632L3I007M37280](#) [FO3HFCYM0.032768-T3](#) [SiT1602BI-23-18E-33.333330G](#)