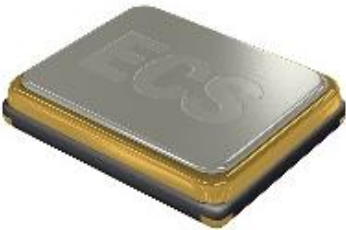


The ECS-1612MV is a miniature SMD HCMOS Oscillator with MultiVolt™ capability of 1.6 ~ 3.6 V. The 1.6 x 1.2 x 0.7 mm ceramic package is ideal for LoRa WAN, Low Power/Portable, Industrial, and IoT applications.

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-1612MV SMD XO



- 1.6 x 1.2 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)

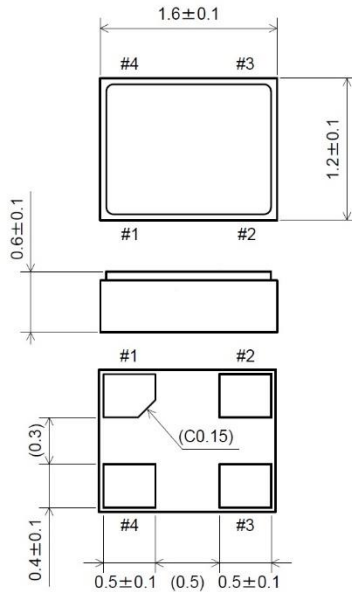


Figure 1) Top, Side, and Bottom views

CURRENT CONSUMPTION mA

FREQ.	~ 20 MHz	~ 50 MHz	~ 80 MHz
+1.8V	2 Typ. / 2.5 Max.	2.5 Typ. / 3 Max.	3 Typ. / 4 Max.
+2.5V	2 Typ. / 3 Max.	2.5 Typ. / 4 Max.	3 Typ. / 5 Max.
+3.3V	3 Typ. / 4 Max.	4 Typ. / 5 Max.	5 Typ. / 7 Max.

PAD CONNECTIONS

1	Stand-by
2	Gnd
3	Output
4	Vdd

Tri State Function

Pin 1	Output
Open	Active
0.7 * Vdd Min	Active
0.3 * Vdd Max.	High-Z

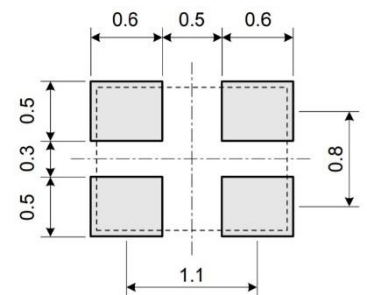


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-1612MV-250-CN-TR

ECS	SERIES	FREQUENCY ABBREVIATION	* STABILITY	TEMP RANGE -	PACKAGING
ECS	1612MV 1.6 x 1.2 mm MultiVolt™ Oscillator	250 = 25.000 MHz See Developed Frequencies Pg.2	A = ±100 ppm B = ±50 ppm G = ±30 ppm C = ±25 ppm D = ±20 ppm	M = -20 ~ +70°C N = -40 ~ +85°C	-TR = Tape & Reel 3K/Reel

* Frequency Stability includes initial tolerance, temperature, supply voltage and load change reflow frequency shift, and aging.

Rev. 2021

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[ECS:](#)

[ECS-1612MV-049-CN-TR](#) [ECS-1612MV-200-CN-TR](#) [ECS-1612MV-400-CN-TR](#) [ECS-1612MV-036-CN-TR](#) [ECS-1612MV-041-CN-TR](#) [ECS-1612MV-245.7-CN-TR](#) [ECS-1612MV-320-CN-TR](#) [ECS-1612MV-100-CN-TR](#) [ECS-1612MV-081.92-CN-TR](#) [ECS-1612MV-073-CN-TR](#) [ECS-1612MV-520-CN-TR](#) [ECS-1612MV-271.2-CN-TR](#)