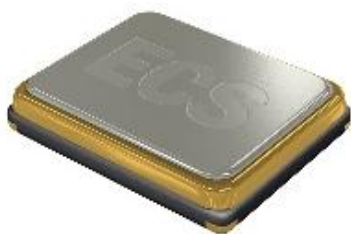


Request a Sample

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)

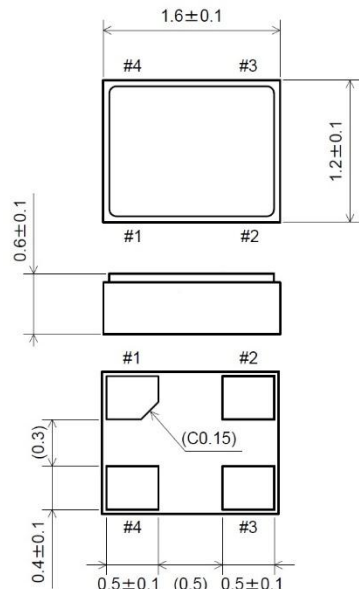


Figure 1) Top, Side, and Bottom views

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

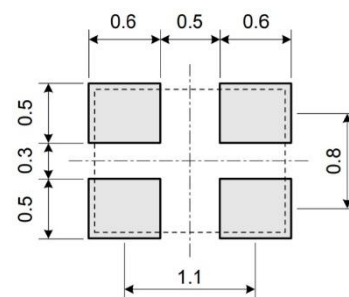


Figure 2) Suggested Land Pattern

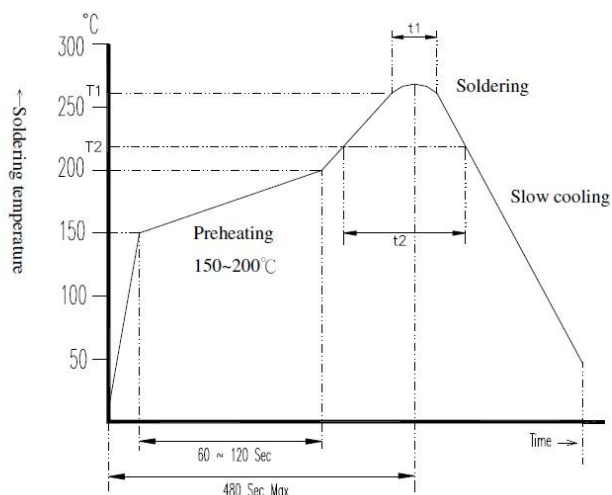
PART NUMBERING GUIDE: Example ECS-1612MV-250-CN-TR

ECS	-	SERIES	-	* 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 † P= -40 ~ +105°C † S= -40 ~ +125°C	-TR = Tape & Reel 3K/Reel

* Frequency Stability includes initial tolerance, temperature, supply voltage and load change reflow frequency shift, and aging. ‡ Contact ECS for available stability options.

DEVELOPED FREQUENCIES

CODE	FREQUENCY MHz
036	3.6864
041	4.096
049	4.9152
073	7.3728
080	8.000
081.92	8.192
100	10.000
120	12.000
122.8	12.288
192	19.200
200	20.000
240	24.000
245.7	24.576
250	25.000
260	26.000
270	27.000
271.2	27.120
320	32.000
400	40.000
500	50.000
520	52.000



Application / Temperature Time	T1 / t1	T2 / t2
Lead Free	260 ± 5°C / 10 ± 5 Sec Max.	217°C Min / 60 ~ 150 Sec
Non-Lead Free	260 ± 5°C / 10 ± 5 Sec Max.	183°C Min / 60 ~ 150 Sec

Figure 3) Suggested Reflow Profile

SOLDER PROFILE
Peak solder Temp +260°C ±5°C 10 ±5 Sec Max.
2 Cycles Max.
MSL 1, Lead Finish Au

POCKET TAPE DIMENSIONS (mm)

Unit: mm

