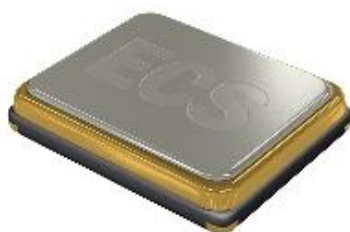


The ECS-2016MV is a miniature SMD HCMOS Oscillator with MultiVolt™ capability of 1.6 ~ 3.6 V. The 2.0 x 1.6 x 0.85 mm ceramic package is ideal for LoRa WAN, Low Power/Portable, Industrial and IoT applications.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-2016MV SMD XO



- 2.0 x 1.6 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)

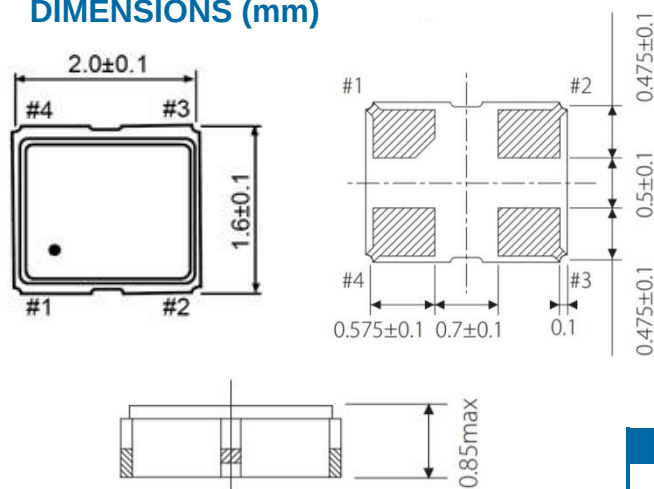


Figure 1) Top, Side, and Bottom views

CURRENT CONSUMPTION mA Max

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

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

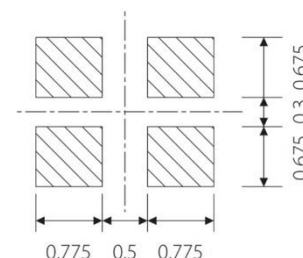


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-2016MV-250-BN-TR

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

2016MV
2.0 x 1.6 mm
Multi Volt 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

-TR = Tape & Reel
1K/Reel

DEVELOPED FREQUENCIES

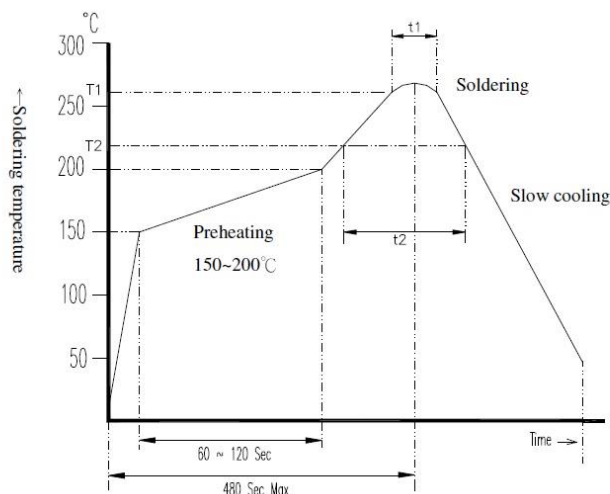
FREQUENCY MHz	CODE
12.000	120
24.000	240
25.000	250
26.000	260
33.3333	333.3
48.000	480
50.000	5000

SOLDER PROFILE

Peak solder Temp +260°C ±5°C 10 ±5 Sec Max.

2 Cycles Max.

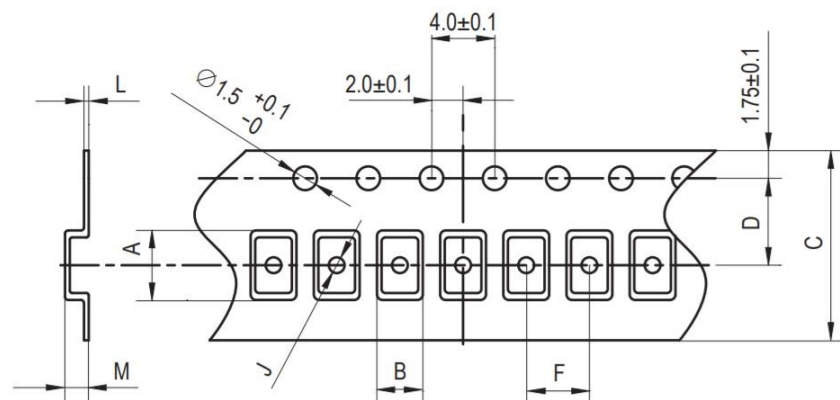
MSL 1, Lead Finish Au



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

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
2.2	1.8	8.0	3.5	4.0	1.0	0.25	1.0	180	1000pcs

Mouser Electronics

Authorized Distributor

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

ECS:

[ECS-2016MV-250-CN-TR](#) [ECS-2016MV-480-CN-TR](#) [ECS-2016MV-250-BN-TR](#) [ECS-2016MV-260-CN-TR](#) [ECS-2016MV-333.3-BN-TR](#) [ECS-2016MV-480-BN-TR](#) [ECS-2016MV-260-BN-TR](#) [ECS-2016MV-500-BN-TR](#) [ECS-2016MV-240-BN-TR](#) [ECS-2016MV-500-CN-TR](#) [ECS-2016MV-120-BN-TR](#)