imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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ECS-2016MV SMD Multi Volt Crystal Oscillator

MIN

1.500

1.6

ECS-2016MV

VoL:10%Vdd max./Voн:90%Vdd min.V DC

MAX

54.000

±25

3.6

15

6.5

5

1

45/55

10

+85

+125

ΤΥΡ



UNITS

MHz

ppm

V

рF

ns

mS

pS

%

μΑ

°C

°C

Request a Sample

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

CONDITIONS

-40 ~ +85°C (CN Opt)

CMOS

10%Vdd-90%Vdd

ECS-2016MV SMD XO

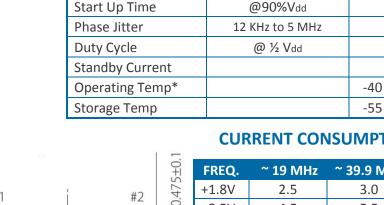
Volt capability of 1.6 ~ 3.6 V. The 2.0 x 1.6 x 0.85 mm ceramic

package is ideal for Low Power/Portable, Industrial and IOT.

- 2.5 x 2.0 mm Footprint
- Extended Temp Range
- RoHS Compliant
- Wide Supply Voltage
- Low Jitter

DIMENSIONS (mm)

Figure 1) Top, Side, and Bottom views



PARAMETERS

* Frequency Stability

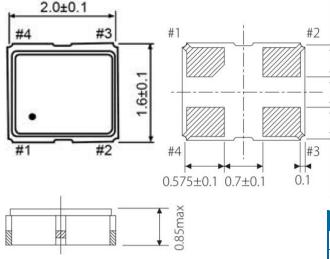
Output voltage Level

Frequency Range

Supply Voltage

Rise & Fall time

Output Load



(CURRENT	CONSUMP	TION r	nA 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

0.5±0.1					
0.5	PAD CONNECTIONS				
	1	Tri-state			
0.1	2	Gnd			
0.475±0.1	3	Output			
0.47	4	Vdd			
Tri State Function					
	Pin 1	Output			
.7 * V	dd Min Or N	NC Active			

High Impedance

0.775 0.5 0.775

Figure 2) Suggested Land Pattern

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

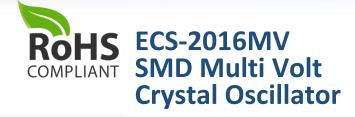
ECS -	SERIES	FREQUENCY ABBREVIATION	-	* STABILITY	TEMP RANGE -	PACKAGING
	2016MV 2.0 x 1.6 mm Multi Volt Oscillator	250 = 25.000 MHz See Developed Frequencies Pg.2		A= ±100 ppm B = ±50 ppm C= ±25 ppm D = ±20 ppm	M = -20 ~ +70°C N = -40 ~ +85°C	-TR = Tape & Reel 1K/Reel

0.3 * Vdd Max.

0.7

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

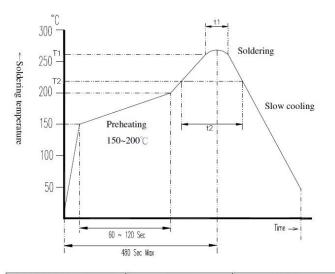
Rev.2018





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	240±5℃ / 10±5 Sec Max	183°C Min / 60~150 Sec

Figure 1) Suggested Reflow Profile

POCKET TAPE DIMENSIONS (mm)

