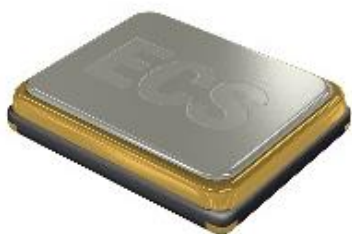


The ECS-3225MVQ is a miniature SMD HCMOS Oscillator AEC-Q200 Qualified with MultiVolt™ capability of 1.7 ~ 3.6 V. The 3.2 x 2.5 x 1.2 mm ceramic package is ideal for Low Power/Portable, Industrial, and Automotive applications.

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-3225MVQ SMD XO



- 3.2 x 2.5 mm Footprint
- AEC-Q200 Qualified
- Extended Temp Range
- Wide Supply Voltage
- Low Jitter

DIMENSIONS (mm)

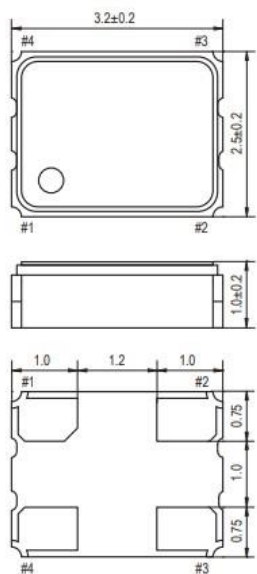


Figure 1) Top, Side, and Bottom views

PARAMETERS	CONDITIONS	ECS-3225MVQ			UNITS
		MIN	TYP	MAX	
Frequency Range		1.000		160.000	MHz
Frequency Stability (1)	-40 ~ +125°C (AS Opt)			±100	ppm
Supply Voltage		1.7		3.6	V
Output Load	CMOS			15	pF
Output voltage Level	VOL: 0.2 Vdd max. / VOH: 0.8 Vdd min. V DC				
Rise & Fall time	20% Vdd – 80%Vdd			7	nS
Start Up Time				10	mS
Phase Jitter	12 kHz to 20 MHz			1	pS
Duty Cycle	@ ½ Vdd		45/55		%
Input Current (No Load)	1.000 ~ 9.999 MHz			8	mA
	10.00 ~ 39.999 MHz			10	mA
	40.00 ~ 50.000 MHz			12	mA
	50.10 ~ 160.00 MHz			20	mA
Aging	Per year			±3	ppm
Standby Current				10	µA
Operating Temp*		-40		+125	°C
Storage Temp		-55		+125	°C

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

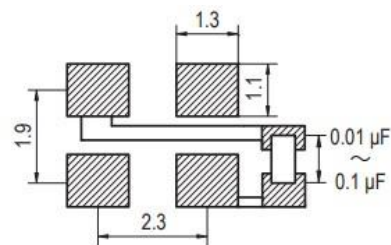


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-3225MVQ-250-AS-TR

ECS	-	SERIES	-	FREQUENCY ABBREVIATION	-	STABILITY (1)	-	TEMP RANGE	-	PACKAGING
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ECS

3225MVQ
AEC-Q200
3.2 x 2.5 mm
MultiVolt™ Oscillator

250 = 25.000 MHz
See Developed
Frequencies Pg. 2

A = ±100 ppm
B = ±50 ppm
C = ±25 ppm (2)
D = ±20 ppm (2)

M = -20 ~ +70°C
N = -40 ~ +85°C
P = -40 ~ +105°C
S = -40 ~ +125°C

-TR = 1K/Reel
-TR3 = 3K/Reel
Qty/Reel

Notes (1) Frequency Stability includes initial tolerance, temperature, supply voltage load change and reflow frequency shift.
(2) Contact ECS for availability.

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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-](#)
[25.000000X](#) [8208AI-8F-33E-66.666666X](#) [NX7031E0125.000000](#) [SiT1602BI-23-33E-25.000000G](#) [SiT1602BC-13-33E-50.000000E](#)
[NX51500001](#) [SiT1602BI-22-33E-12.000000E](#) [NX71C50003](#) [KN3270029](#) [SiT1602BI-22-33E-25.000000E](#) [SiT1602BI-12-33E-48.000000E](#)
[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](#)