

ECS-3225S SMD CRYSTAL OSCILLATOR

Request a Sample

MIN

2.500



UNITS

MHz

ppm

ppm

mA

μΑ

рF

ns

%

°C

°C

The miniature ECS-3225S is a miniature SMD HCMOS Tight Stability Crystal Oscillator. The 3.2 x 2.5 x 0.9 mm ceramic package is ideal for wireless and IOT application where stability is critical.

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

ECS-3225S

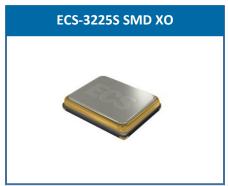
TYP

MAX

55.000

± 15

± 10



- Extended Temp Range

Power Supply Vdd ±10% +1.8, +2.5, +3.0, +3.3 V DC **Current Consumption** 7 Standby Current 10 Output **HCMOS** 15 Vol:10%Vdd max./Voн:90%Vdd min.V DC Output voltage Level Low Profile Rise & Fall time 10%Vdd - 90%Vdd 5 • 3.2 x 2.5 mm Footprint **Duty Cycle** @ 1/2 Vdd 45/55 RoHS Compliant Phase Noise @ 10 KHz offset -145 dBc/Hz **Operating Temp** -40 +85 -55 +125 Storage Temp

PARAMETERS

Frequency Range

Frequency Stability *

DIMENSIONS (mm)

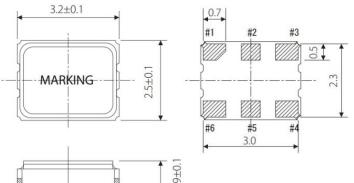


Figure	1)	Тор,	Side,	and	Bottom	views
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PAD CONNECTIONS		
1	Tri-state	
2	No Connect	
3	Ground	
4	Output	
5	No Connect	
6	Vdd	

CONDITIONS

EN (-40 ~ +85°C)

FN (-40 ~ +85°C)

Tri State Function			
Pin 1	Output		
High or NC	Active		
Low	High Impedance		

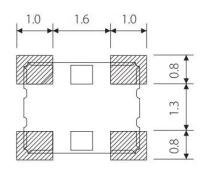


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-3225S33-250-FN-TR

ECS	- SERIES	Voltage	FREQUENCY ABBREVIATION	STABILITY	TEMP RANGE	PACKAGING
	3225S 3.2 x 2.5 mm	18 = +1.8V 25 = +2.5V 30 = +3.0V 33 = +3.3V	250 = 25.000 MHz See Developed Frequencies Pg.2	E = ±15 ppm F = ± 10 ppm	N = -40 ~ +85°C	TR = Tape & Reel 1K/Reel

Rev.2016

^{*} Frequency Stability includes initial tolerance, temperature, supply voltage & load change reflow frequency shift, aging (1 year @+25°C).

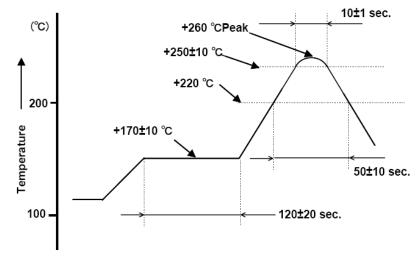
ECS-3225S SMD CRYSTAL OSCILLATOR



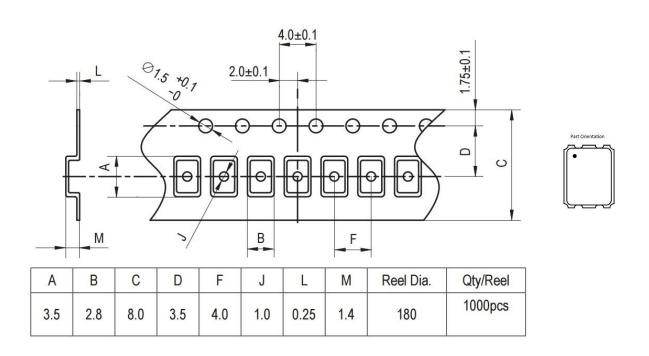
FREQUENCY ABBREVIATIONS

FREQUENCY MHz	CODE
5.000	050
10.000	100
12.000	120
16.000	160
20.000	200
24.000	240
25.000	250
26.000	260
27.000	270
32.000	320
40.000	400
44.000	440
50.000	500





POCKET TAPE DIMENSIONS (mm)



Mouser Electronics

Authorized Distributor

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

ECS:

ECS-3250SS-270-3B-TR ECS-3250SS-400-3B-TR ECS-3250SS-540-3B-TR ECS-3225S33-050-FN-TR ECS-3225S33-100-FN-TR ECS-3225S33-120-FN-TR ECS-3225S33-160-FN-TR ECS-3225S33-200-FN-TR ECS-3225S33-240-FN-TR ECS-3225S18-440-EN-TR ECS-3225S18-500-EN-TR ECS-3225S18-240-EN-TR ECS-3225S18-250-EN-TR ECS-3225S18-260-EN-TR ECS-3225S18-270-EN-TR ECS-3225S18-320-EN-TR ECS-3225S18-40.000-EN-TR ECS-3225S25-500-EN-TR ECS-3225S18-050-EN-TR ECS-3225S18-100-EN-TR ECS-3225S18-120-EN-TR ECS-3225S18-160-EN-TR ECS-3225S18-200-EN-TR ECS-3225S25-250-EN-TR ECS-3225S25-260-EN-TR ECS-3225S25-270-EN-TR ECS-3225S25-320-EN-TR ECS-3225S25-40.000-EN-TR ECS-3225S25-440-EN-TR ECS-3225S25-050-EN-TR ECS-3225S25-100-EN-TR ECS-3225S25-120-EN-TR ECS-3225S25-160-EN-TR ECS-3225S25-200-EN-TR ECS-3225S25-240-EN-TR ECS-3225S30-260-EN-TR ECS-3225S30-270-EN-TR ECS-3225S30-320-EN-TR ECS-3225S30-40.000-EN-TR ECS-3225S30-440-EN-TR ECS-3225S30-500-EN-TR ECS-3225S30-100-EN-TR ECS-3225S30-120-EN-TR ECS-3225S30-160-EN-TR ECS-3225S30-200-EN-TR ECS-3225S30-240-EN-TR ECS-3225S30-250-EN-TR ECS-3225S33-270-EN-TR ECS-3225S33-320-EN-TR ECS-3225S33-40.000-EN-TR ECS-3225S33-440-EN-TR ECS-3225S33-500-EN-TR ECS-3225S30-050-EN-TR ECS-3225S33-120-EN-TR ECS-3225S33-160-EN-TR ECS-3225S33-200-EN-TR ECS-3225S33-240-EN-TR ECS-3225S33-250-EN-TR ECS-3225S33-260-EN-TR ECS-3225S18-320-FN-TR ECS-3225S18-40.000-FN-TR ECS-3225S18-440-FN-TR ECS-3225S18-500-FN-TR ECS-3225S33-050-EN-TR ECS-3225S33-100-EN-TR ECS-3225S18-160-FN-TR ECS-3225S18-200-FN-TR ECS-3225S18-240-FN-TR ECS-3225S18-250-FN-TR ECS-3225S18-260-FN-TR ECS-3225S18-270-FN-TR ECS-3225S25-40.000-FN-TR ECS-3225S25-440-FN-TR ECS-3225S25-500-FN-TR ECS-3225S18-050-FN-TR ECS-3225S18-100-FN-TR ECS-3225S18-120-FN-TR ECS-3225S25-200-FN-TR ECS-3225S25-240-FN-TR ECS-3225S25-250-FN-TR ECS-3225S25-260-FN-TR ECS-3225S25-270-FN-TR ECS-3225S25-320-FN-TR ECS-3225S30-440-FN-TR ECS-3225S30-500-FN-TR ECS-3225S25-050-FN-TR ECS-3225S25-100-FN-TR ECS-3225S25-120-FN-TR ECS-3225S25-160-FN-TR ECS-3225S30-240-FN-TR ECS-3225S30-250-FN-TR ECS-3225S30-260-FN-TR ECS-3225S30-270-FN-TR ECS-3225S30-320-FN-TR ECS-3225S30-40.000-FN-TR ECS-3225S33-500-FN-TR ECS-3225S30-050-FN-TR ECS-3225S30-100-FN-TR ECS-3225S30-120-FN-TR ECS-3225S30-160-FN-TR