

- ▶ Low Voltage HCMOS
- ▶ 7 x 5 mm Footprint
- ▶ Low current consumption
- ▶ Pb Free/RoHS Compliant

# ECS-5718/5725

## SMD CLOCK OSCILLATOR

ECS-5718 (1.8V) and ECS-5725 (2.5V) miniature SMD oscillators. Ideal for today's high density applications.

### OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECS-5718 (+1.8V)			ECS-5725 (+2.5V)			UNITS
		MIN	TYP	MAX	MIN	TYP	MAX	
Frequency Range		1.000		125.0	1.000		125.0	MHz
Operating Temperature	Standard	0		+70	0		+70	°C
	Extended (N Option)	-40		+85	-40		+85	°C
Storage Temperature		-55		+125	-55		+125	°C
Supply Voltage	VDD	+1.62	+1.8	+1.98	+2.25	+2.5	+2.75	VDC
Frequency Stability *	Option A			± 100			± 100	ppm
	Option B			± 50			± 50	ppm
	Option C			± 25			± 25	ppm
Input Current	1.000 to 23.999 MHz			10			12	mA
	24.000 to 49.999 MHz			12			15	mA
	50.000 to 69.999 MHz			15			20	mA
	70.000 to 125.000 MHz			25			30	mA
Output Symmetry	@ 50% VDD level			40/60			40/60	%
	@ 50% VDD level (T Option)			45/55			45/55	%
Rise and Fall Times	10% VDD to 90% level			5			6	ns
"0" level	VOL			10% VDD			10% VDD	VDC
"1" level	VOH	90% VDD			90% VDD			VDC
Output Load	HCMOS			30			30	pF
Disable delay time				150			150	ns
Startup/Enable time				10			10	ms
Aging				± 5			± 5	ppm

\* Note: Inclusive of 25°C tolerance, operating temperature, input voltage change, load change, shock and vibration.

### DIMENSIONS (mm)

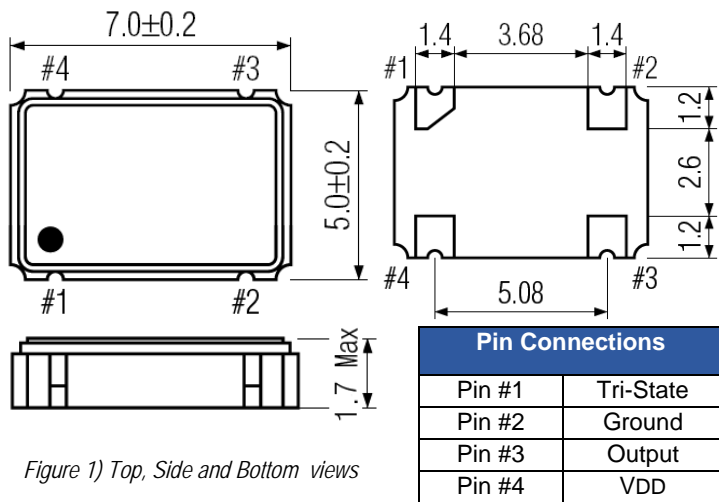


Figure 1) Top, Side and Bottom views

Tri-State Control Voltage	
Pad 1	Pad 3
Open	Oscillation
1 Level	Oscillation
0 Level	No Oscillation

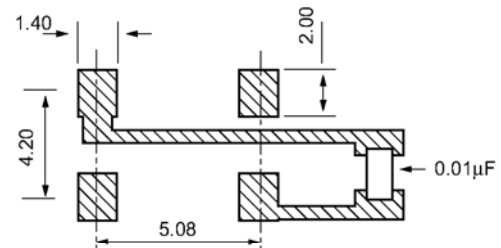


Figure 2) Suggested Land Pattern

### PART NUMBERING GUIDE: Example ECS-5725-200-BN

ECS - Series - Frequency Abbreviation - Stability

5718 = +1.8V  
5725 = +2.5V

200 = 20.000 MHz  
See Frequency Abbreviations.

A = ± 100 ppm  
B = ± 50 ppm  
C = ± 25 ppm

Temperature - Symmetry

Blank = 0 ~ +70°C  
M = -20 ~ +70°C  
N = -40 ~ +85°C

Blank = 40/60 (Std)  
T = 45/55

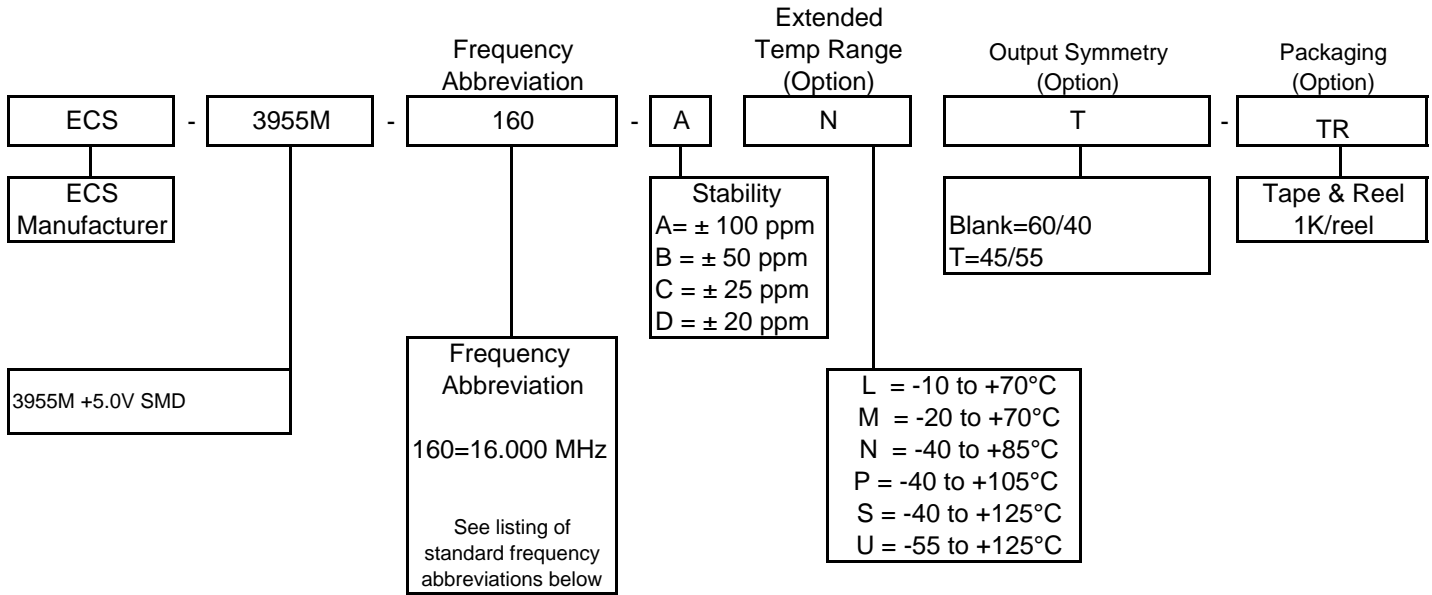


# ECS-3955M

## Part Numbering Guide

Sample Standard P/N: ECS-3955M-160

Sample Custom P/N: ECS-3955M-160-ANT-TR



### Standard Frequency Abbreviations

Frequency	Frequency Abbreviation
1.8432 MHz	-018
3.579545 MHz	-035
3.6864 MHz	-036
4.000 MHz	-040
4.9152 MHz	-049
6.000 MHz	-060
7.3728 MHz	-073
8.000 MHz	-080
9.8304 MHz	-098.3
10.000 MHz	-100
12.000 MHz	-120
13.000 MHz	-130
14.31818 MHz	-143
14.7456 MHz	-147.4
16.000 MHz	-160
16.384 MHz	-163

Frequency	Frequency Abbreviation
19.6608 MHz	-196.6
20.000 MHz	-200
24.000 MHz	-240
25.000 MHz	-250
27.000 MHz	-270
30.000 MHz	-300
32.000 MHz	-320
33.333 MHz	-333.3
40.000 MHz	-400
50.000 MHz	-500
66.000 MHz	-660
66.666 MHz	-666
80.000 MHz	-800
100.000 MHz	-1000
106.250 MHz	-1062
125.000 MHz	-1250