

- ▶ 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)

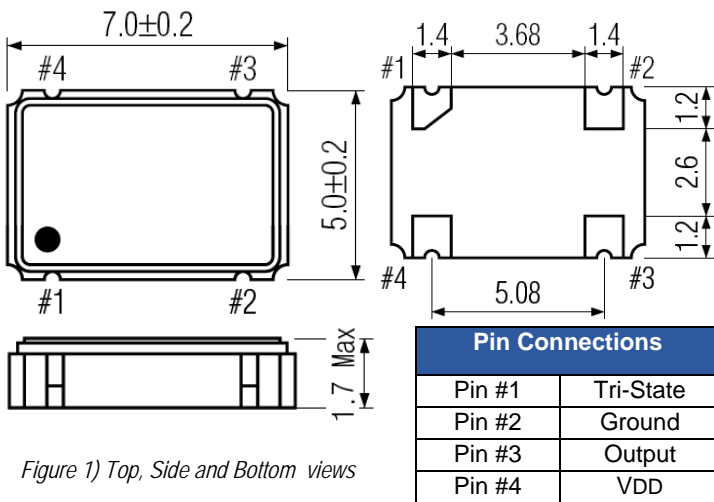


Figure 1) Top, Side and Bottom views

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

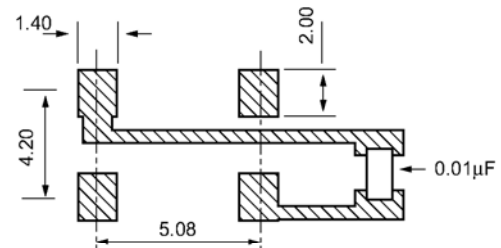


Figure 2) Suggested Land Pattern

### 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