

The ECS-327SMO oscillators utilizes the 32.768 KHz tuning fork crystal in a SMD ceramic package. It is designed specifically for wireless PCMCIA and portable communication equipment applications.

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OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- 2.0 mm Low Profile
- SMD Version
- Multi Volt (1.5 to 6V)
- RoHS Compliant

Parameters	Conditions	MIN	TYP	MAX	Units
Output Frequency			32.768		KHz
Frequency Stability	-10 ~ +60°C	-60		+30	PPM
	-40 ~ +85°C	-140		+30	PPM
Operating Temperature		-40		+85	°C
Storage Temperature		-50		+125	°C
Input Voltage Vcc		+1.5	+3.3	+6.0	V DC
Input Current	With 15 pF load		8	15	μA
Symmetry	@ ½ Vcc level and +25°C	45/55		55/45	%
Rise and Fall Time				200	ns
"0" Level				Vcc x 0.1	
"1" Level		Vcc x 0.9			
Load	CMOS			15	pF
Disable Delay Time				150	nS
Startup Time	VDD +3.3V at +25°C		220	500	mS

* Inclusive of 25°C tolerance, operating temperature range, input voltage change, load change, aging, shock and vibration.

Part Number: ECS-327SMO-TR

ECS	-	Series	-	Packaging
ECS		327SMO		TR = Tape & Reel 2K/Reel

Package Dimensions (mm)

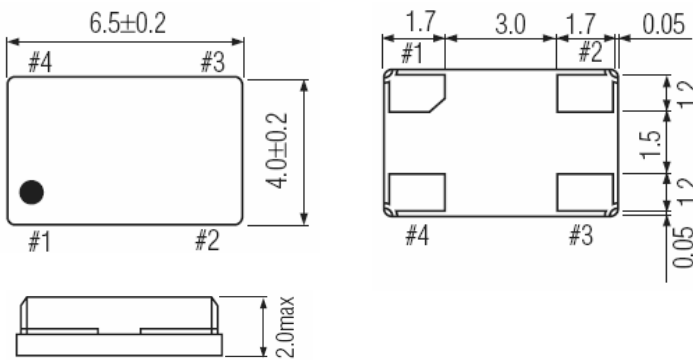


Figure 1) Top, Side, and Bottom views

Pad Connections		
#1	"L"	Open or "H"
#2	Ground	
#3	Z	Output
#4	V _{CC}	

Package Data	
Cover	Metal
Base	Ceramic
Terminal Plating	Gold

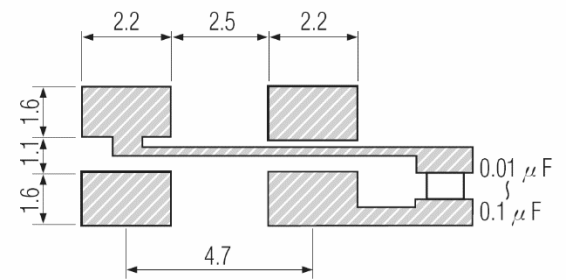


Figure 2) Land Pattern

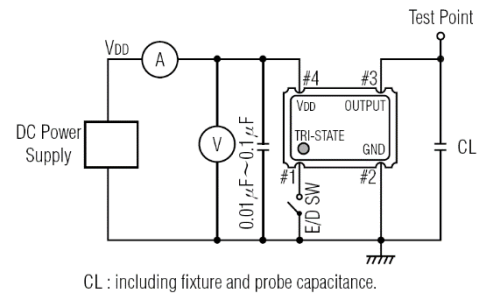
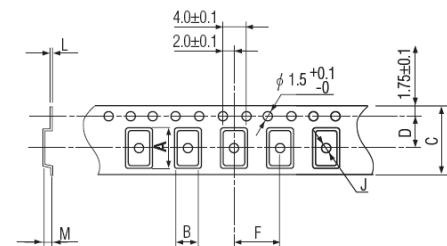


Figure 3) Test Circuit



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
7.6	4.6	12.0	5.5	8.0	1.6	0.4	3.1	330	2000 pcs

Figure 4) Tape Specifications