

The miniature ECX-71 is a very compact SMD Tuning Fork Crystal. The 7 x 1.5 x 1.4 mm plastic package is ideal for today's SMD manufacturing environment.

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- Low Profile
- 7 x 1.5 mm Footprint
- Extended Temp. Range
- RoHS Compliant

PARAMETERS	CONDITIONS	ECX-71			UNITS
		MIN	TYP	MAX	
Frequency	Fo		32.768		KHz
Frequency Tolerance	@ +25°C			± 20	ppm
Load Capacitance	Specify in P/N		12.5		pF
Drive Level	DL		0.1	1.0	μW
Equivalent Series Resistance	R1			65K	Ω
Turnover Temperature		+20	+25	+30	°C
Temperature Coefficient		-0.025	-0.035	-0.045	ppm/°C ²
Shunt Capacitance	Co		0.8		pF
Aging (First Year)	@ +25°C ±3°C			±3	ppm
Operating Temperature	Topr	-40		+85	°C
Storage Temperature	Tstg	-55		+125	°C

DIMENSIONS (mm)

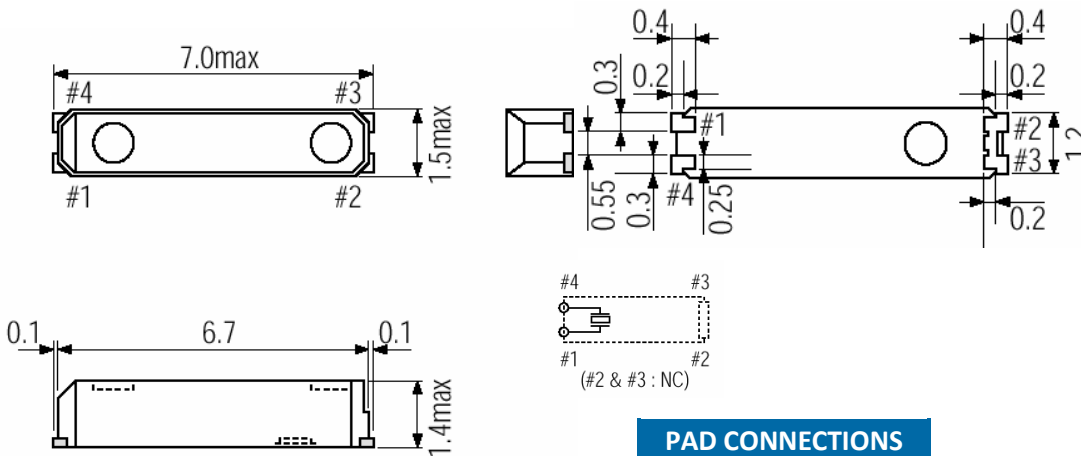


Figure 1) Top, Side, and Bottom views

PAD CONNECTIONS	
1	In/Out
4	Out/In

PARABOLIC TEMPERATURE CURVE

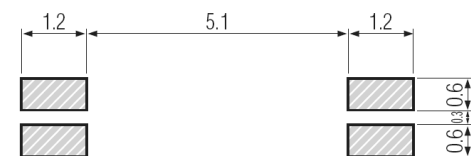
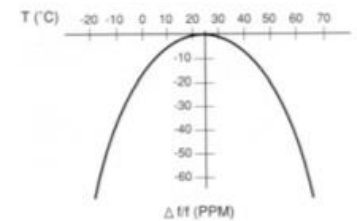


Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-.327-12.5-38-TR

ECS - FREQUENCY ABBREVIATION

LOAD CAPACITANCE

PACKAGE

PACKAGING

ECS

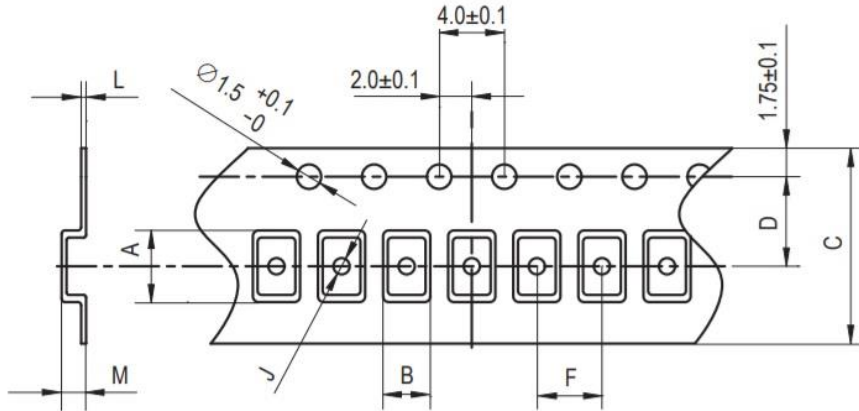
.327 = 32.768 KHz

12.5 = 12.5 pF
9 = 9 pF
7 = 7 pF
6 = 6 pF

-38 = ECX-71

TR = Tape & Reel
3K/Reel

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
7.2	1.55	16.0	7.5	4.0	1.0	0.3	1.5	180	3000pcs

SOLDER PROFILE
Peak solder Temp +260°C Max 10 sec Max.
2 Cycles Max.
MSL 1, Lead Finish Sn



Figure 1) Suggested Reflow Profile