

# ECX-71 SMD CRYSTAL

ECS INC

The miniature ECX-71 is a very compact SMD Tuning Fork Crystal. The  $7 \times 1.5 \times 1.4$  mm plastic package is ideal for commercial and industrial applications.

Request a Sample

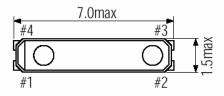
## **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**



- Low Profile
- 7 x 1.5 mm Footprint
- Extended Temp. Range
- RoHS Compliant
- Low Power RTC Applications such as STM32 AN2867

	OT ENATING CONDITIONS / ELECTRICAL CHARACTERIS							
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		рF			
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/°C²			
Shunt Capacitance	Со		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)**



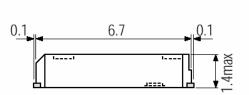
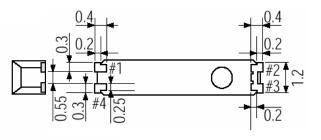
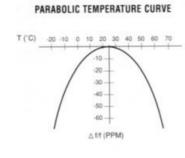


Figure 1) Top, Side, and Bottom views





PAD CONNECTIONS				
1	In/Out			
4	Out/In			



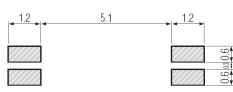


Figure 2) Suggested Land Pattern

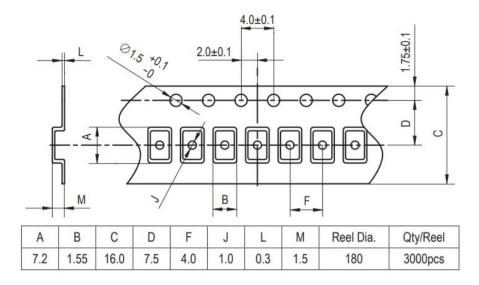
#### PART NUMBERING GUIDE: Example ECS-.327-12.5-38-TR

	PART NUIVIDE	KING GUIDE:	Example ECS327-1	2.3-30-1R
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)**



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

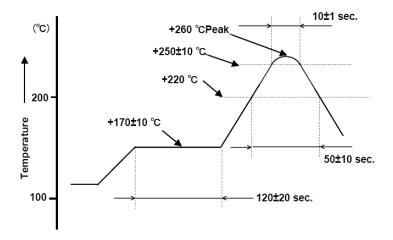


Figure 1) Suggested Reflow Profile

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