

ECX-49 SMD CRYSTAL

Request a Sample



The ultra-miniature ECX-49 is a very compact SMD Tuning Fork Crystal. The $4.1\,x\,1.5\,x\,0.9$ mm ceramic package is ideal for Industrail applications.

ECX-49 SMD CRYSTAL

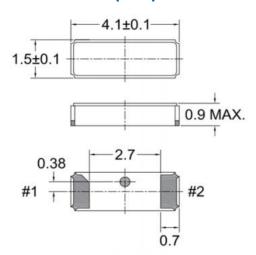


- Low Profile
- 4.1 x 1.5 mm Footprint
- Extended Temp. Range
- RoHS Compliant

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-49		UNITS	
		MIN	TYP	MAX	
Frequency			32.768		KHz
Frequency Tolerance	@ +25°C			± 20 *	ppm
Temperature Coefficient	ß -0.028		-0.034	-0.040	ppm/°C²
Shunt Capacitance	Co		1.10		pF
Load Capacitance	Specify in P/N		12.5		pF
Drive Level	DL			1.0	μW
Equivalent Series Resistance	R1			70K	Ω
Turnover Temperature	Тм	+20	+25	+30	°C
Operating Temperature	Topr	-40		+85	°C
Storage Temperature	Tstg	-55		+125	°C
Aging (First Year)	@ +25°C ±3°C			±3	ppm

DIMENSIONS (mm)



PAD CONNECTIONS				
1	In/Out			
2	Out/In			

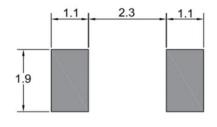


Figure 2) Suggested Land Pattern

Figure 1) Top, Side, and Bottom views

PART NUMBERING GUIDE: Example ECS-.327-12.5-49-TR

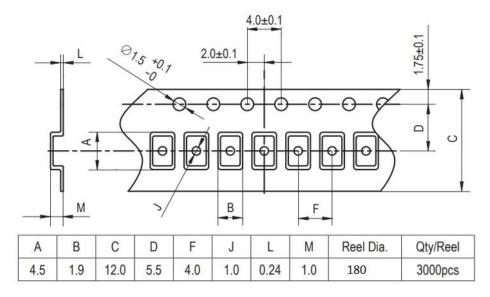
ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance	PACKAGING
ECS .327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 7 = 7 pF 6 = 6pF	-49 = ECX-49	Blank = ±20 ppm * C = ± 10 ppm	TR = Tape & Reel 3K/Reel

*Contact ECS for availability Rev.2018





POCKET TAPE DIMENSIONS (mm)



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

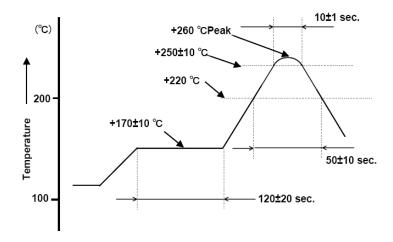


Figure 1) Suggested Reflow Profile