

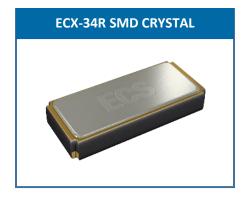
ECX-34RR SMD CRYSTAL

Request a Sample



The ultra-miniature ECX-34RR is a very compact SMD Tuning Fork Crystal with a Typical ESR of 20K Ω . Low ESR part recommended by STMicroelectronics for the STM32 Microcontrollers.

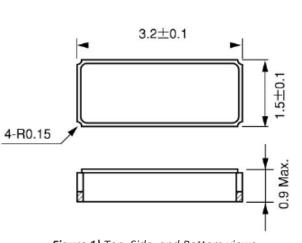
OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

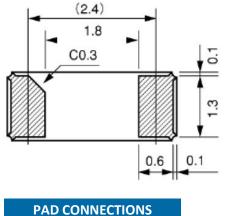


- Low Power RTC Applications such as STM32 <u>AN2867</u>
- 20K Typ ESR
- 3.2 x 1.5 mm Footprint
- Extended Temp. Range
- RoHS Compliant

DIMENSIONS	(mm)	

PARAMETERS	CONDITIONS	ECX-34RR			UNITS
		MIN	TYP	MAX	
Frequency	Fo		32.768		KHz
Frequency Tolerance	@ +25°C			± 20 *	ppm
Load Capacitance	Specify in P/N		12.5		pF
Equivalent Series Resistance	R1		20K	40K	Ω
Drive Level	DL		0.1	0.5	μW
Quality Factor	Q	20K	30K		
Turnover Temperature		+20	+25	+30	°C
Temperature Coefficient		-0.028	-0.034	-0.040	ppm/°C²
Shunt Capacitance	Со		1.3	1.6	pF
Motional Capacitance	C1		3.8		fF
Aging (First Year)	@ +25°C ±3°C			±3	ppm
Operating Temperature	Topr	-40		+85	°C
Storage Temperature	Tstg	-40		+85	°C
Insulation Resistance	@ 100V DC	500M			Ω





In/Out

Out/In

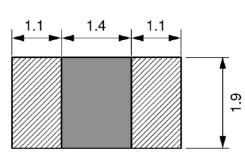


Figure 1) Top, Side, and Bottom views

Figure 2) Suggested Land Pattern

PART NUMBERING GUIDE: Example ECS-.327-12.5-34RR-TR

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ECS - FREQUENCY ABBREVIATION LOAD **PACKAGE CUSTOM OPTIONS PACKAGING** Tolerance **CAPACITANCE** Blank = ±20 ppm .327 = 32.768 KHz 12.5 = 12.5 pF TR = Tape **ECS** -34RR = ECX-34RR * C = ± 10 ppm 9 = 9 pF& Reel 6 = 6 pF3K/Reel

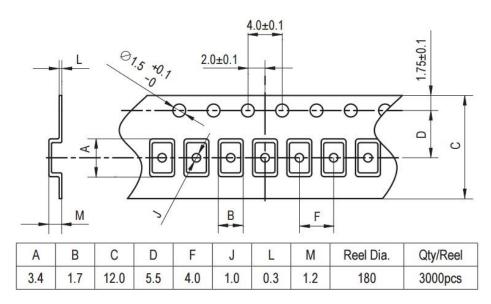
*Contact ECS for availability

Rev.2017





POCKET TAPE DIMENSIONS (mm)



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

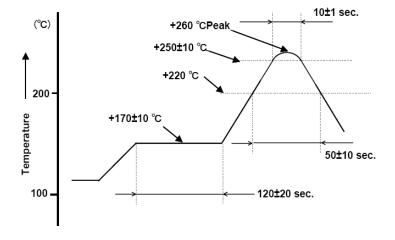


Figure 1) Suggested Reflow Profile

Mouser Electronics

Authorized Distributor

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ECS: