

ECX-34R SMD CRYSTAL

## ECX-34RR **SMD CRYSTAL**

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

PARAMETERS

**Request a Sample** 



UNITS

## **OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

ECX-34RR

CONDITIONS

			MIN	ТҮР	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		
<ul> <li>Low Power RTC Applications such as STM32 <u>AN2867</u></li> <li>20K Typ ESR</li> <li>3.2 x 1.5 mm Footprint</li> <li>Extended Temp. Range</li> <li>RoHS Compliant</li> </ul>	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
DIMENSIONS (mm)	Storage Temperature	Tstg	-40		+85	°C
	Insulation Resistance	@ 100V DC	500M			Ω
4-R0.15 Figure 1) Top, Side, and Bottom v PART NUMBERIN	PAD CONN 1 2 Jiews JG GUIDE: Example ECS-	ECTIONS In/Out Out/In		1.1	1.4 ► 2) Suggest	1.1
ECS - FREQUENCY ABBREVIATION	LOAD PACKA CAPACITANCE	GE	CUSTOM Tol	OPTIONS erance		PACKAGING
ECS .327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 6 = 6 pF	X-34RR	Blank = : * C = ± 1		]	TR = Tape & Reel 3K/Reel

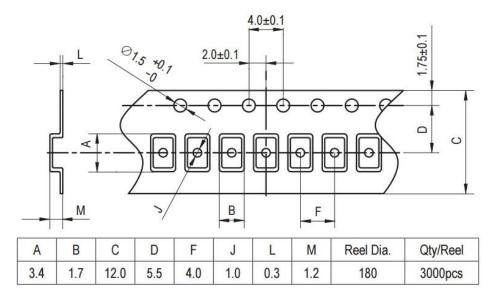
\*Contact ECS for availability

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				

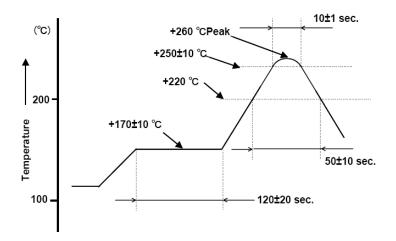


Figure 1) Suggested Reflow Profile