

The miniature ECX-16Q is a very compact low ESR SMD AEC-Q200 Tuning Fork Crystal. Low ESR ideal for RTC and low power Microcontrollers.

ECX-16Q

32.768 KHz

SMD Tuning Fork Crystal

[Request a Sample](#)

ECX-16Q SMD CRYSTAL



- Low ESR
- 1.6 x 1.0 mm Footprint
- Extended Temp. Range
- AEC-Q200 Qualified
- Applications: Automotive, COTS, & Industrial

DIMENSIONS (mm)

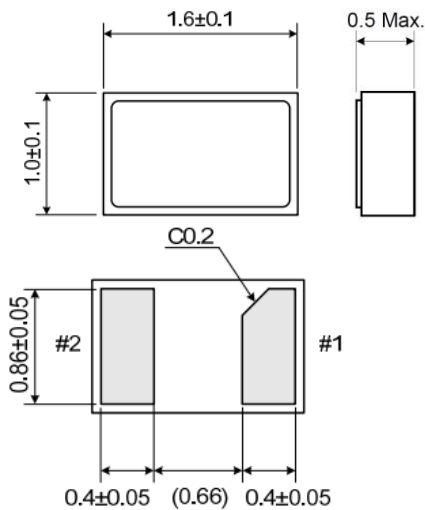
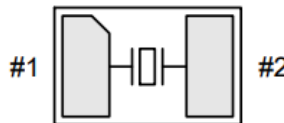


Figure 1) Top, Side, and Bottom views

Internal Connection
<Top View>



PAD CONNECTIONS

1	In/Out
2	Out/In

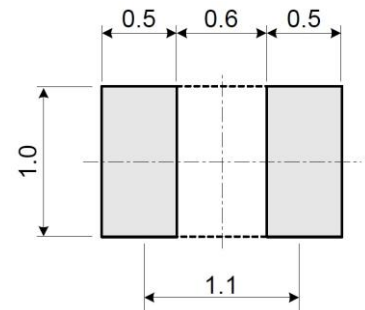


Figure 2) Suggested Land Pattern

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS

PARAMETERS	CONDITIONS	ECX-16Q			UNITS
		MIN	TYP	MAX	
Frequency			32.768		KHz
Frequency Tolerance	@ +25°C			± 20 *	ppm
Load Capacitance	Specify in P/N		12.5		pF
Drive Level	DL			0.5	μW
Equivalent Series Resistance	-40 ~ +85°C			70K	Ω
	-40 ~ +85°C			75K	Ω
	-40 ~ +125°C			85K	Ω
Motional Capacitance			7.5		fF
Turnover Temperature		+20	+25	+30	°C
Temperature Coefficient		-0.02	-0.03	-0.040	ppm/°C ²
Shunt Capacitance	Co		1.5		pF
Aging (First Year)	@ +25°C ±3°C			±3	ppm
Operating Temperature	S Option	-40		+125	°C
Storage Temperature	Tstg	-55		+125	°C

PART NUMBERING GUIDE: Example ECS-.327-12.5-16Q-S-TR

ECS - FREQUENCY ABBREVIATION		LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS Tolerance Operating Temp		PACKAGING
ECS	.327 = 32.768 KHz	12.5 = 12.5 pF 9 = 9 pF 7 = 7 pF 6 = 6 pF	-16Q = ECX-16Q	Blank = ±20 ppm * C = ± 10 ppm	N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C	TR = Tape & Reel

*Contact ECS for availability

Rev.2026

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[12.000MHZ-18-R80-D2Y-T](#) [FKT26EIHQ0.032768-BAG1K](#) [FC4STCBMF10.0](#) [FO3HSKDM33.333-T1](#) [MS1V-T1K-32.768kHz-9pF-20PPM-](#)
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