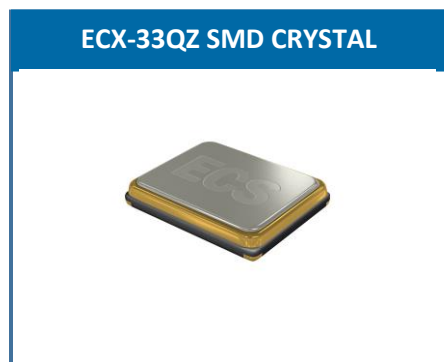


The ultra-miniature ruggedized ECX-33QZ compact SMD Crystal. The 3.2 x 2.5 x 0.8 mm ceramic package with additional internal bonding points is ideal for harsh high shock/vibration environments such as Automotive or TPMS applications.

[Request a Sample](#)

OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS



- 3.2 x 2.5 mm Footprint
- Extended Temp. Range
- AEC-Q200 Qualified
- Ruggedized Automotive/TPMS Applications

DIMENSIONS (mm)

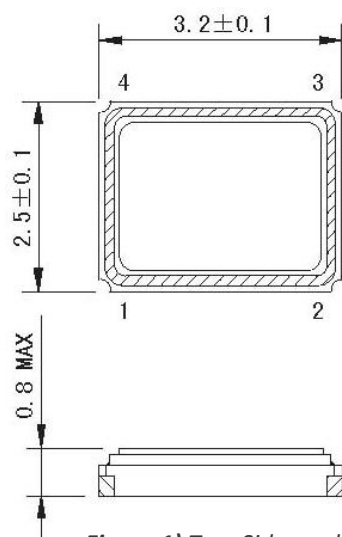
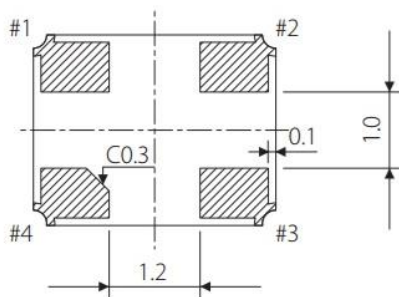


Figure 1) Top, Side, and Bottom views



PAD CONNECTIONS	
1	In/Out
2	Gnd
3	Out/In
4	Gnd

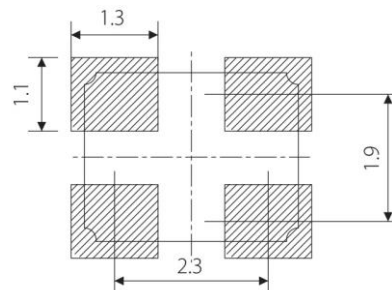


Figure 2) Suggested Land Pattern

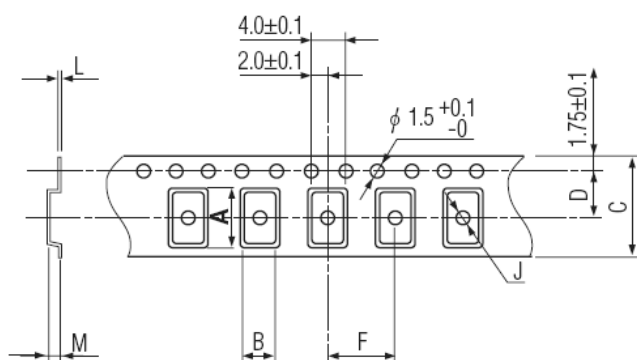
PART NUMBERING GUIDE: Example ECS-250-12-33QZ-ADS-TR

ECS - FREQUENCY ABBREVIATION	LOAD CAPACITANCE	PACKAGE	CUSTOM OPTIONS		PACKAGING
			Tolerance	Stability	Temp Range
ECS	260 = 26.000 MHz *See Developed Frequencies Pg. 2	33QZ = ECX-33QZ	Blank = ± 15 ppm A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	Blank = ± 50 ppm D = ± 100 ppm E = ± 50 ppm	Blank = -40 ~ +125°C N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C
	10 = 10 pF 12 = 12 pF 16 = 16 pF				TR = Tape & Reel 1K/Reel

*Contact ECS for availability of non-developed frequencies.

Rev.2020

POCKET TAPE DIMENSIONS (mm)



A	B	C	D	F	J	L	M	Reel Dia.	Qty/Reel
3.5	2.8	8.0	3.5	4.0	1.1	0.25	1.0	180	1000

SOLDER PROFILE

Peak solder Temp +260°C Max 10 sec Max.

2 Cycles Max.

MSL 1, Lead Finish Au

DEVELOPED FREQUENCIES

Abbreviation	Frequency (MHZ)
120	12.000
135.6	13.560
160	16.000
180.8	18.080
196.875	19.6875
240	24.000
250	25.000
260	26.000

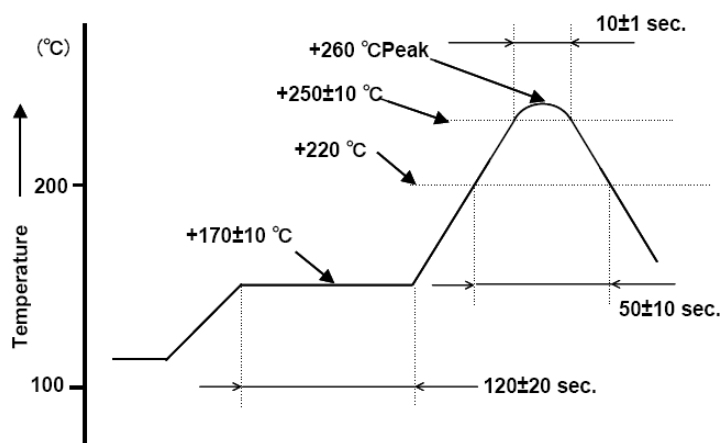


Figure 1) Suggested Reflow Profile

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ECS:

[ECS-180.8-10-33QZ-TR](#) [ECS-260-10-33QZ-TR](#) [ECS-135.6-10-33QZ-TR](#) [ECS-196.875-10-33QZ-TR](#)