

# ECX-53BQZ SMD CRYSTAL

ECS INC

**UNITS** 

MHz

ppm

ppm

Ω

Ω

рF

рF

μW

°C

°C

ppm

The ultra-miniature rugged ECX-53BQZ compact SMD Crystal. The  $5.0 \times 3.2 \times 0.9$  mm ceramic package is ideal for harsh environments such as TPMS applications.

Request a Sample

MIN

13.000

-40

-40

**CONDITIONS** 

@ +25°C

(Standard) -40 ~ +125°C

(Standard) 13 ~ 19.999 MHz

20 ~ 26.000 MHz

Co

Specify in P/N

DL

Topr

Tstg

@ +25°C ±3°C

**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS** 

ECX-53BQZ

10

10

MAX

26.000

± 15

± 50

100

90

5

100

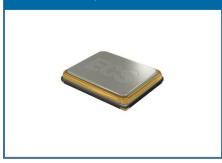
+125

+125

±3

**TYP** 

#### **ECX-53BQZ SMD CRYSTAL**



- Low Profile
- 5.0 x 3.2 mm Footprint
- Extended Temp. Range
- AEC-Q200 Qualified
- Automotive/TPMS Applications

#### **DIMENSIONS (mm)**

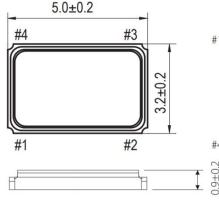


Figure 1) Top, Side, and Bottom

Crystal is symmetrical, pad 1 & 3 are interchangeable. Chamfer on the bottom pad has no electrical significance.

<i>2</i> 7777777	777	#2	î
C0.3			4.
2.6		#3	ĵ

**PARAMETERS** 

**Frequency Tolerance** 

Frequency Stability

Equivalent Series Resistance (ESR)

**Shunt Capacitance** 

Load Capacitance

**Operating Temperature** 

Storage Temperature

Aging (First Year)

Drive Level

Frequency

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

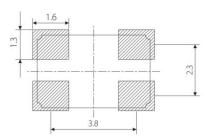


Figure 2) Suggested Land Pattern

#### PART NUMBERING GUIDE: Example ECS-260-10-30BQZ-TR

ECS - FF	REQUENCY ABBREVIATION	LOAD	PACKAGE		AVAILABLE OPTION	ONS	PACKAGING
		CAPACITANCE		Tolerance	Stability	Temp Range	
ECS	260 = 26.000 MHz *See Developed Frequencies Pg. 2	10 = 10 pF 12 = 12 pF 16 = 16 pF	30BQZ = ECX-53BQZ	Blank=Standard A = ± 25 ppm J = ± 20 ppm R = ± 15 ppm C = ± 10 ppm	Blank=Standard D = ± 100 ppm E = ± 50 ppm G = ±30 ppm	Blank=Standard N = -40 ~ +85°C P = -40 ~ +105°C S = -40 ~ +125°C	Tape & Reel

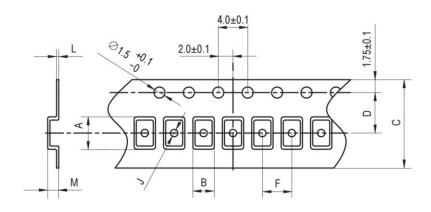
<sup>\*</sup>Contact ECS for availability of non-developed or available options.

Rev.2017





### **POCKET TAPE DIMENSIONS (mm)**



Α	В	С	D	F	J	L	M	Reel Dia.	Qty/Reel
5.4	3.5	12.0	5.5	8.0	1.6	0.25	1.0	180	1000pcs

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

DEVELOPED FREQUENCIES				
Abbreviation	Frequency (MHZ)			
135.6	13.560			
180.8	18.080			
196.875	19.6875			
260	26.000			

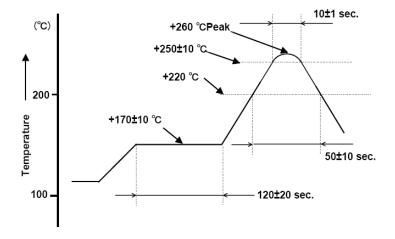


Figure 1) Suggested Reflow Profile

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