

Features

- Small size (2.0x1.6mm)
- SMD

Applications

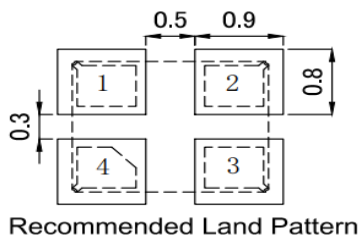
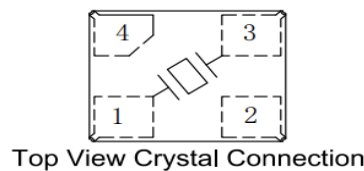
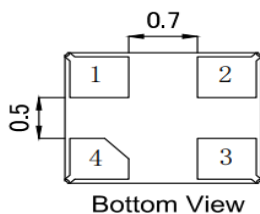
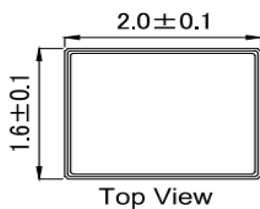
- Small mobile devices
- Consumer Electronics
- Communication devices

BC2016A Series

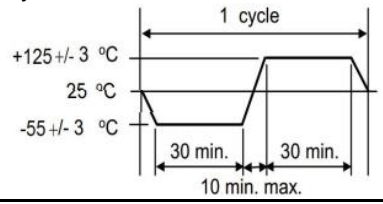
Parameters	Value			Units	Conditions
	MIN	TYP	MAX		
Frequency Range	10~50			MHz	
Mode of Oscillation	Foundation				AT-CUT
Frequency Tolerance(FL)	±10	–	±50	ppm	+25°C ± 2°C
Frequency Stability over Temperature(TL)	±10	–	±50	ppm	-40°C ~ +85°C
Load Capacitance(CL)	±8	–	±∞	pf	
Drive Level(DL)	±1	–	±200	uW	
Equivalent Series Resistance (RR)	–	–	70	Ω	
Shunt Capacitance (C0)	–	–	3	pf	
Insulation Resistance (IR)	500	–		MΩ	DC 100V
Aging	±2			ppm	
Operating Temperature Range	-40	–	85	°C	
Storage Temperature Range	-55	–	125	°C	

Dimension

Dimension: mm



Reliability Test Specifications

Test item	Specification	Conditions
Drop Test	GB/T2423.8	150CM height,fall freely onto concrete floor 3 times.
Mechanical Shock	GB/T2423.5	Device are shocked to half sine wave (1000G) three mutually perpendicular axes each 3 times. 0.5m sec.duration time.
Vibration Test	GB/T2423.10	Amplitude 1.52mm Time 20 min Enable Crystal from 10~2000Hz, X,Y,Z horizontal, 1time/ 2hours
Solderability Test	IEC60068-2-58	Solderability: 245±5°C Height: 0.5mm Time: 3±0.5second Scaling powder: rosin resin methanol solvent (1:4)
High Temp Storage	GB/T2423.2	500±12 hours at +125°C±2°C
Low Temp Storage	GB/T2423.1	500±12 hours at -40°C±2°C
TEMP CYCLING TEST	GB/T2423.22	10 cycles as below table 
TEMP & HUM CYCLING TEST	GB/T2423.3	Temperature:85°C±3°C Humidity:85% 500h

Ordering Guide

BC 2016 A X XXX - XX - X

Product:
Resonator

Outline:
2.0mm x 1.6mm

Package:
A: Package A

Temp. Range:
C: -20°C ~ +70°C
I: -40°C ~ +85°C

Load
Capacitance:
Eg:12PF

Frequency:
xxMHz
Eg:10.000

Temp. Stability:
105: ±10ppm
205: ±20ppm

Eg: BC2016AI105-32.000-8PF