



AEC[®]

Abundance Enterprise Co.

PRODUCT SPECIFICATION

CRYSTAL RESONATOR

AEC PART NUMBER / SPEC. NO: ZMR206BE-32.768K-20-12.5p

CUSTOMER:



This model is ROHS/PB-free compliance according to the ROHS directive 2002/95/EC

It has lead in high melting temperature solder inside exempted from ROHS directive Annex Article 4(1) point 7

Production Name	Crystal Resonator
Frequency	32.768KHz
Model No	ZMR206BE -32.768K-20-12.5p
Issue Date	18 th Jan 2013

Address: Room 602-603, Java Commercial Centre,

128 Java Road,

North Point, Hong Kong

Homepage: <http://www.aeccrystal.com/>

Email: sales@aeccrystal.com

Telephone: (852)- 2856 0000

Fax : (852) 2561 2161

Prepared	Inspection	Approved
<i>Victor</i>	<i>Andy</i>	<i>Henkijie</i>

Product Specification	Abundance Enterprise Co.	Original Date	8/Jul/2005
		PN:	ZMR206BE

1. GENERAL PROVISION

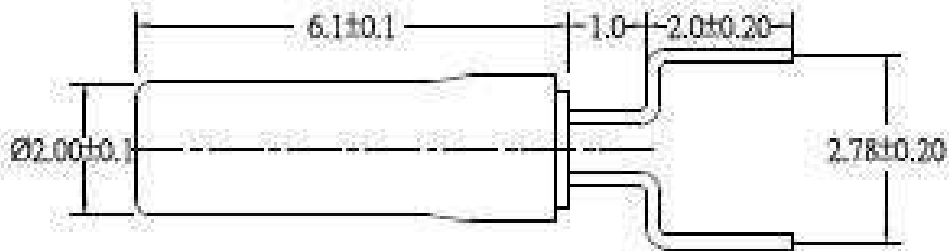
- 1-1 Production Name: Crystal Resonator Cylinder Type
- 1-2 Holder Type: ZMR- 206BE
- 1-3 This model is ROHS/PB-free compliance according to the ROHS directive 2002/95/EC
- 1-4

2. ELECTRICAL DATA

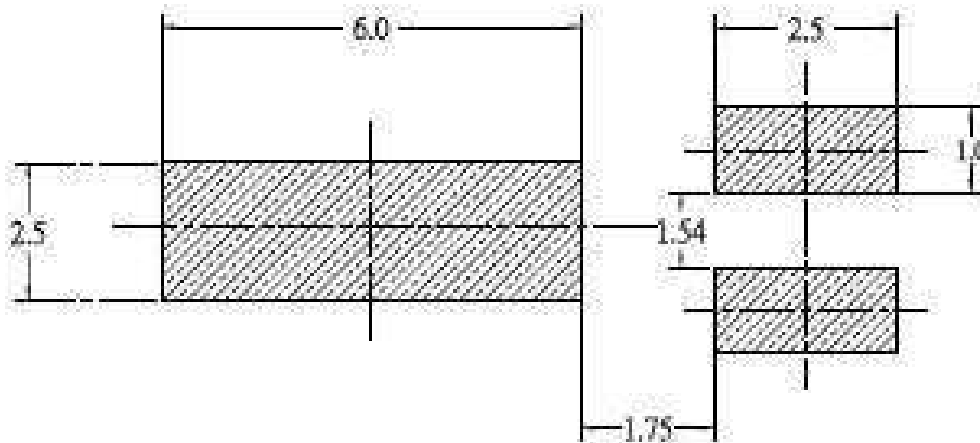
- 2-1 Mode of Vibration : +2°X-cut, Fundamental
- 2-2 Nominal Frequency (F) : 32.768KHz
- 2-3 Load Capacitance (CL) : 12.5pF
- 2-4 Frequency Tolerance at 25°C : +/- 20 ppm
- 2-5 Series Resistance (Rr) : 50 Ω max.
- 2-6 Quality Factor (Q) : 40K min.
- 2-7 Turnover Temperature (To) : 25°C \pm 5°C
- 2-8 Temperature Coefficient (K) : -0.042ppm / °C² Typical
- 2-9 Operation Temperature : - 40°C \sim +85°C
- 2-10 Storage Temp. Range : - 5°C \sim +125°C
- 2-10 Shunt Capacitance (Co) : 1.35pF Typical
- 2-11 Motional Capacitance : 2.0fF Typical
- 2-11 Aging 1st Year ($\Delta f/f$) : \pm 3ppm max.
- 2-12 Shock Resistance : \pm 5ppm max.
- 2-13 Insulation Resistance : 500M Ω at DC 100V \pm 15V
- 2-14 Drive Level : 1 μ W

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3. DIMENSION & LAND PATTERN



Recommended Soldering



Unit: mm

 AEC Abundance Enterprise Co.	NO.	REVISED DATE	MODIFY CONTENTS		
	1	2005.7.8	ORIGINAL		
DIMENSION	mm				
SCALE	/	MODEL	Crystal Resonator Cylinder Type		
TOLERANCE	± 0.2	PART NAME	ZMR-206B		
DRAWING NO. ZMR-206B			APPV'D BY Henkie	CHECK BY Andy	DRAWN BY Nathan

4. REFLOW SOLDERING

