



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# CERAMIC SMD MICROPROCESSOR CRYSTAL

ABM2

RoHS/RoHS II Compliant

Pb in glass (exempt per RoHS II 2011/65/EU Annex (5))



8.0 x 4.5 x 1.4mm

Moisture Sensitivity Level (MSL) –This product is Hermetically Sealed and not Moisture Sensitive -MSL = N/A: Not Applicable

## FEATURES:

- Low in height; suitable for thin equipment
- Glass sealed package assures high reliability and high temperature operation
- Tight tolerance and stability available
- Suitable for RoHS compliant reflow
- Low cost glass sealed crystal solution

## APPLICATIONS:

- High density applications
- Modems, communication and test equipment
- PCMCIA, Wireless applications
- Microprocessor crystals

## STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000	-----	100.000	MHz	Fundamental
Operation mode	8.000	-----	40.000		Fundamental AT-cut (Standard)
	40.001	-----	100.000		3 <sup>rd</sup> OT AT-cut (Standard)
	40.001	-----	60.000		Fundamental AT-cut (See options)
Operating Temperature	-10	-----	+60	°C	See options
Storage Temperature	-40	-----	+85	°C	
Frequency Tolerance @+25°C	-50	-----	+50	ppm	See options
Frequency Stability over the Operating Temperature ( ref. to +25°C)	-50	-----	+50	ppm	See options
Equivalent series resistance	-----	-----	100	Ω	8.000 – 10.000MHz (Fundamental)
	-----	-----	60		10.001 – 15.999MHz (Fundamental)
	-----	-----	50		16.000 – 60.000MHz (Fundamental)
	-----	-----	70		40.000 – 100.000MHz (3 <sup>rd</sup> OT)
Shunt capacitance (C0)	-----	-----	7	pF	-----
Load capacitance (CL)	-----	18	-----	pF	See options
Drive Level	-----	10	100	μW	
Aging @ 25°C±3°C	-----	-----	±5	ppm	First year
Insulation Resistance	500	-----	-----	MΩ	@ 100Vdc

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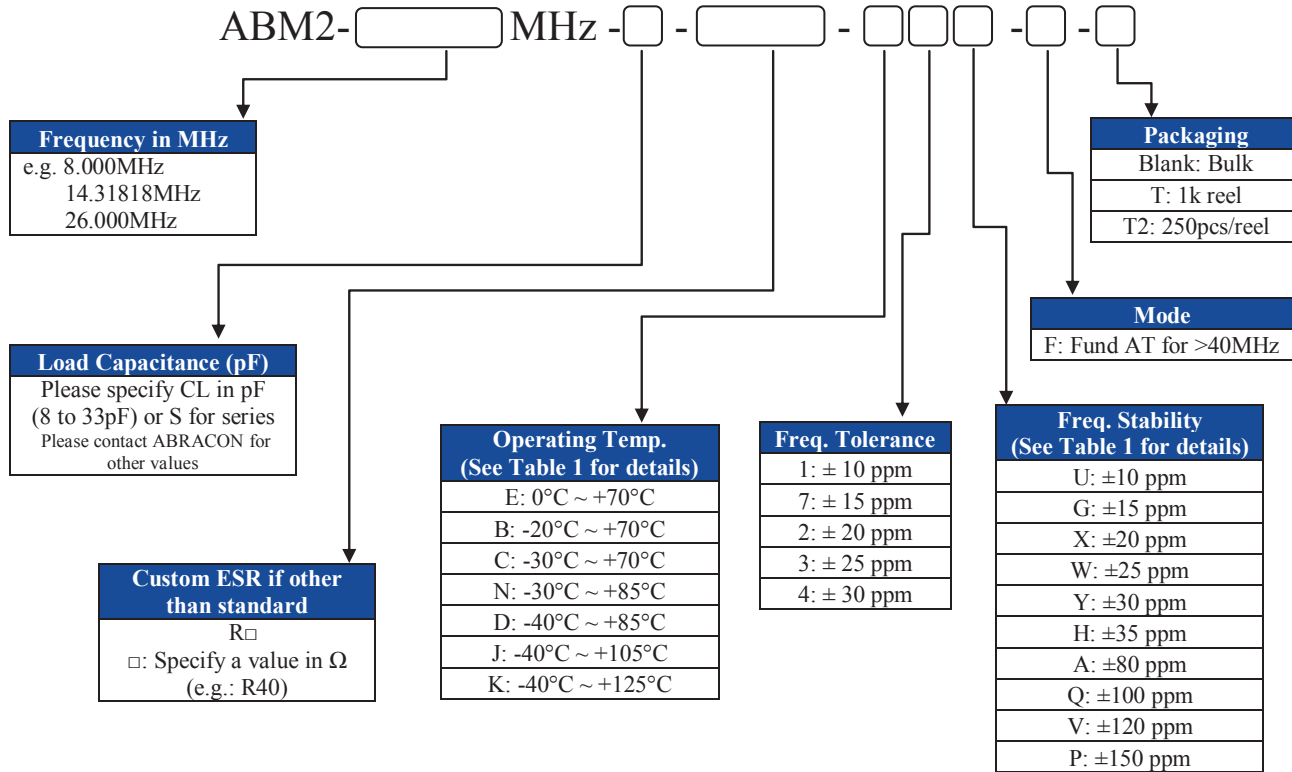
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## OPTIONS AND PART IDENTIFICATION: (Left blank if standard)



Note: See Table 1 for the availability of Operating Temp. and Freq. Stability combination

Table 1 Available Combinations of Operating Temp. and Freq. Stability

Operating Temp.	Freq. Stability					
	U:±10ppm	G:±15ppm	X:±20ppm	W:±25ppm	Y:±30ppm	H:±35ppm
Std: -10°C ~ +60°C	√	√	√	√	√	√
E: 0°C ~ +70°C		√	√	√	√	√
B: -20°C ~ +70°C		√	√	√	√	√
C: -30°C ~ +70°C				√	√	√
N: -30°C ~ +85°C					√	√
D: -40°C ~ +85°C					√*	√*
J: -40°C ~ +105°C						
K: -40°C ~ +125°C						

Operating Temp.	Freq. Stability				
	Std:±50ppm	A:±80ppm	Q:±100ppm	V:±120ppm	P:±150ppm
Std: -10°C ~ +60°C	√	√	√	√	√
E: 0°C ~ +70°C	√	√	√	√	√
B: -20°C ~ +70°C	√	√	√	√	√
C: -30°C ~ +70°C	√	√	√	√	√
N: -30°C ~ +85°C	√	√	√	√	√
D: -40°C ~ +85°C	√*	√	√	√	√
J: -40°C ~ +105°C			√	√	√
K: -40°C ~ +125°C			√	√	√

Note: \*: Availability depends on frequency.



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ABM2

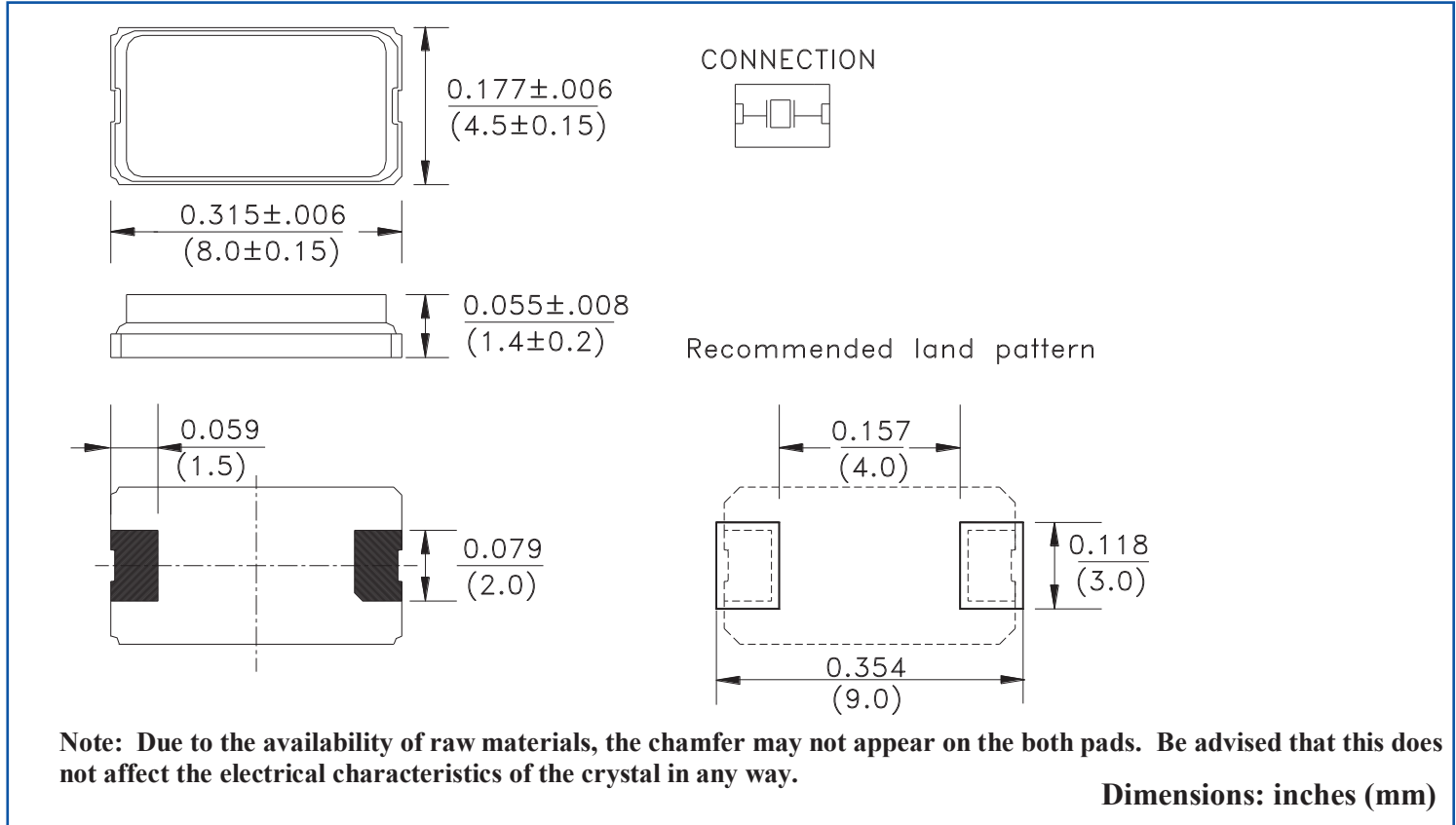
RoHS/RoHS II Compliant

Pb in glass (exempt per RoHS II 2011/65/EU Annex (5))

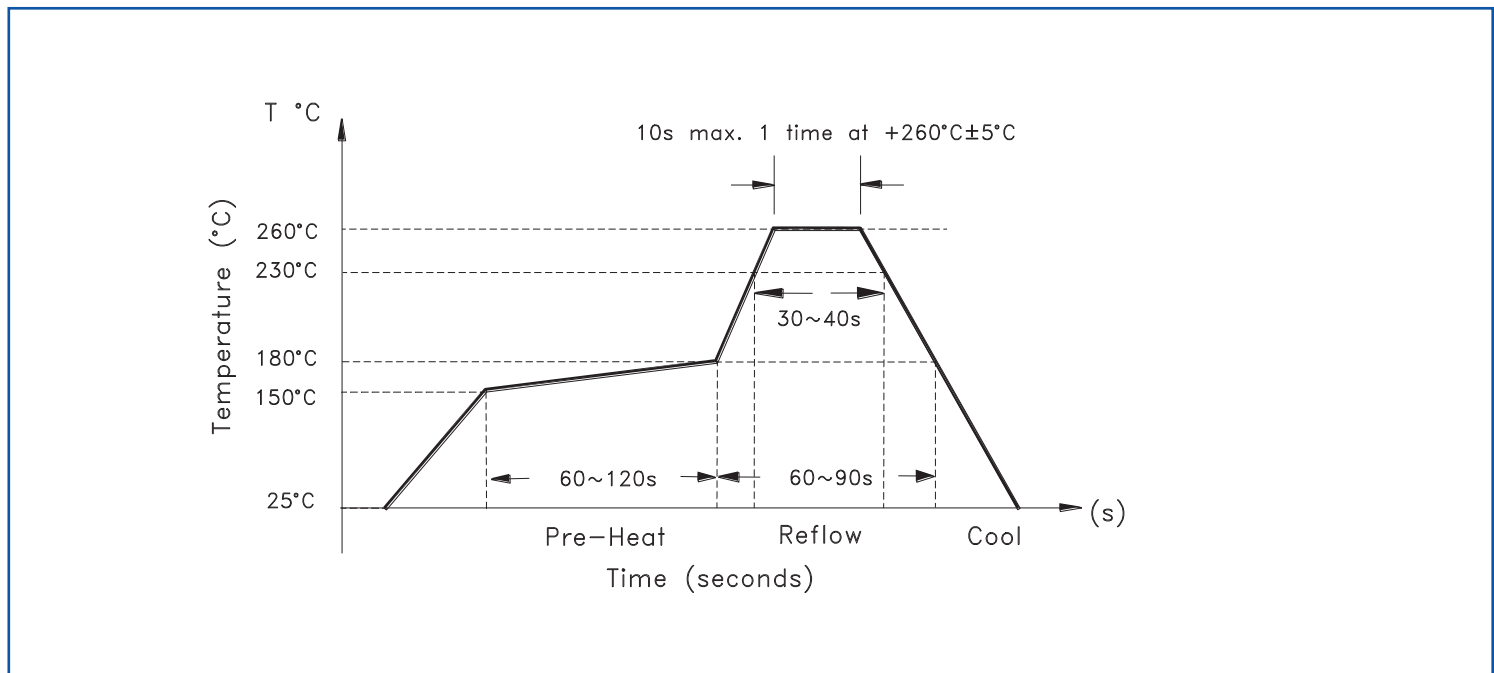


8.0 x 4.5 x 1.4mm

## OUTLINE DIMENSION:



## REFLOW PROFILE:



# CERAMIC SMD MICROPROCESSOR CRYSTAL

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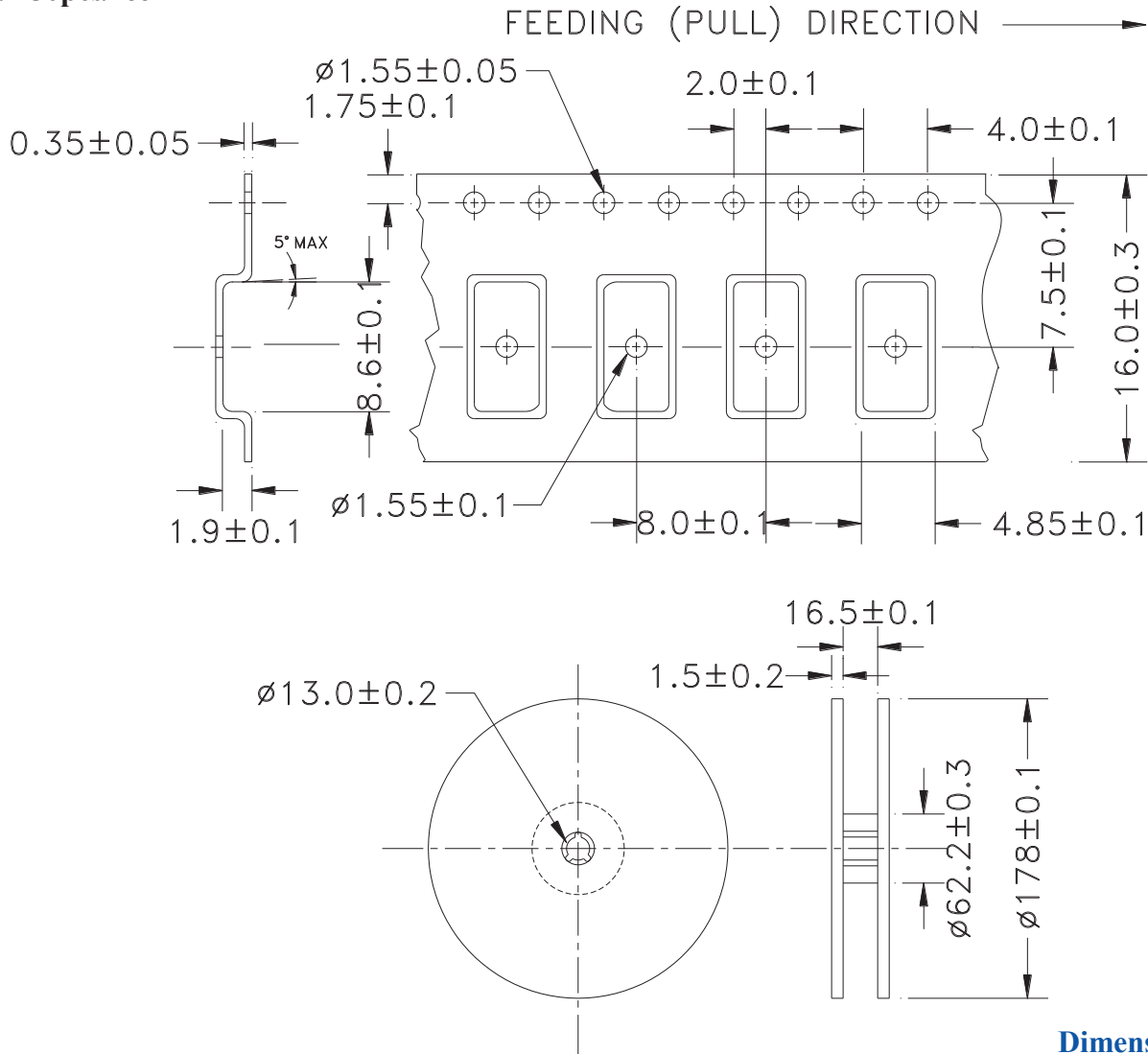


8.0 x 4.5 x 1.4mm

## TAPE & REEL:

T: 1000pcs/reel

T2: 250pcs/reel



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