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5.0 x 3.2x 1.3 mm **RoHS/RoHS II Compliant** MSL Level = N/A

Features

- AT-cut fundamental or 3rd OT mode
- Suitable for RoHS reflow profile
- Tight Stability available ±10ppm
- Ceramic package hermetically glass sealed assures high precision and reliability

Applications

- Communication and test equipment
- PCMCIA and wireless applications

Key Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Frequency Range	8.000		54.000	MII-	Fundamental
	54.100		80.000	MHz	3 rd Overtone
Operation Mode	Fundan	nental or 3rd	Overtone		
Operating Temperature	-10		+60	°C	See options
Storage Temperature	-40		+90	°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
			140		$8.000 \le F < 9.000 \text{ (Fund)}$
Equivalent series resistance (R1)			120		$9.000 \le F < 10.000 \text{ (Fund)}$
			60		$10.000 \le F < 16.000 \text{ (Fund)}$
			40	Ω	$16.000 \le F \le 20.000 \text{ (Fund)}$
			30		$20.000 \le F < 30.000 \text{ (Fund)}$
			25		$30.000 \le F \le 54.000 \text{ (Fund)}$
			60		$54.000 < F \le 80.000 (3^{rd} OT)$
Shunt capacitance (C0)			7	pF	
Load capacitance (CL)		18		pF	Standard (See options if other than STD)
Drive Level		10	100	μW	
Aging	-5		+5	ppm	@25°C±3°C First year
Insulation Resistance	500			ΜΩ	$ @ 100 Vdc \pm 15 V $



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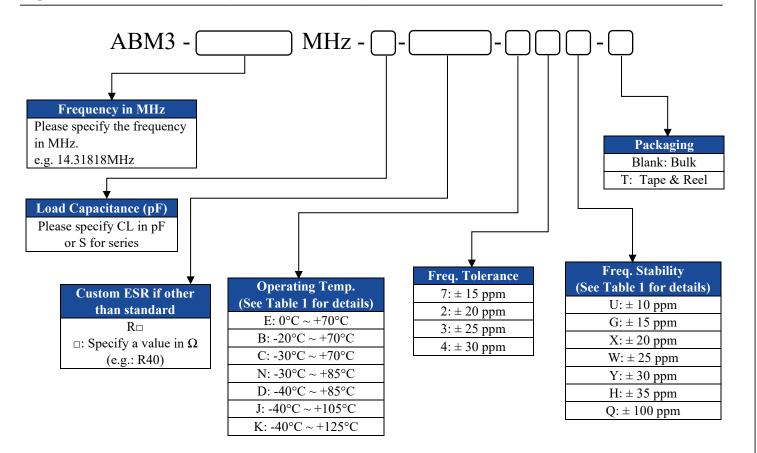


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Options and Part Identification (left blank if standard)



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

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

Oneveting Temp	Freq. Stability							
Operating Temp.	U:±10ppm	G:±15ppm	X:±20ppm	W:±25ppm	Y:±30ppm	H:±35ppm	Std:±50ppm	Q:±100ppm
Std: -10°C ~ +60°C	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
E: 0°C ~ +70°C	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
B: -20°C ~ +70°C	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
C: -30°C ~ +70°C		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
N: -30°C ~ +85°C		$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
D: -40°C ~ +85°C			$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$
J: -40°C ~ +105°C						V	V	V
K: -40°C ~ +125°C							$\sqrt{}$	$\sqrt{}$



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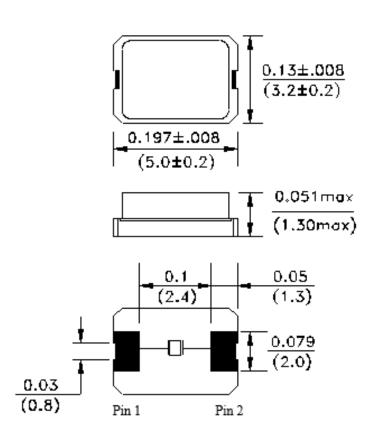


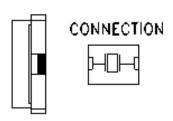
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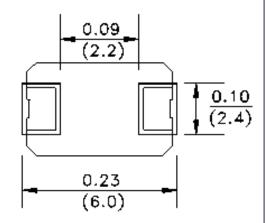
5.0 x 3.2x 1.3 mm **RoHS/RoHS II Compliant** MSL Level = N/A

Mechanical Dimensions





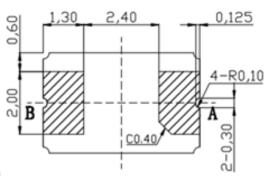
Recommended land pattern



Alternative bottom packaging 1:

(Bottom View)

Alternative bottom packaging 2:



Dimensions: inches (mm)

Sealing Method = Glass Sealing



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Reflow Profile [JEDEC J-STD-020]

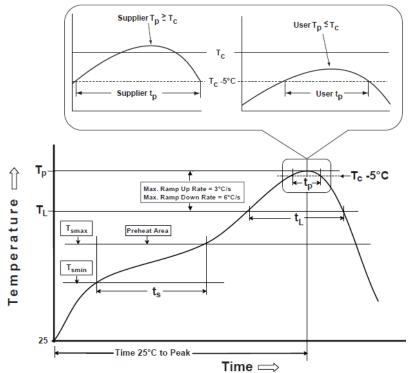


Table 1 **SnPb Eutectic Process** Classification Temperatures (Tc) Package Volume mm³ Volume mm³ Thickness <350 <u>></u>350 235 °C 220 °C <2.5 mm ≥2.5 mm 220 °C 220 °C

Table 2						
Pb-Free Process						
Classification Temperatures (T _c)						
Package Thickness	Volume mm³ <350	Volume mm ³ 350-2000	Volume mm³ >2000			
<1.6 mm	260 °C	260 °C	260 °C			
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C			
>2.5 mm	250 °C	245 °C	245 °C			

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Preheat / soak		
Temperature minimum (T _{smin})	100°C	150°C
Temperature maximum (T _{smax})	150°C	200°C
Time (T _{smin} to T _{smax}) (t _s)	60 - 120 sec.	60 - 120 sec.
Average ramp-up rate (T _{smax} to T _P)	3°C/sec. max	3°C/sec. max
Liquidous temperature (T _L)	183°C	217°C
Time at liquidous (t _L)	60 - 150 sec.	60 - 150 sec.
Peak package body temperature (T _P)*	see Table 1	see Table 2
Time (t _p)** within 5°C of the specified classification temperature (T _C)	20 sec.	30 sec.
Ramp-down rate (T _p to T _{smax})	6°C/sec. max	6°C/sec. max
Time 25°C to peak temperature	6 min. max	8 min. max
Reflow cycles	2 max	2 max

^{*}Tolerance for peak profile temperature (T_P) is defined as a supplier minimum and a user maximum.



^{**}Tolerance for time at peak profile temperature (tp) is defined as supplier minimum and a user maximum.

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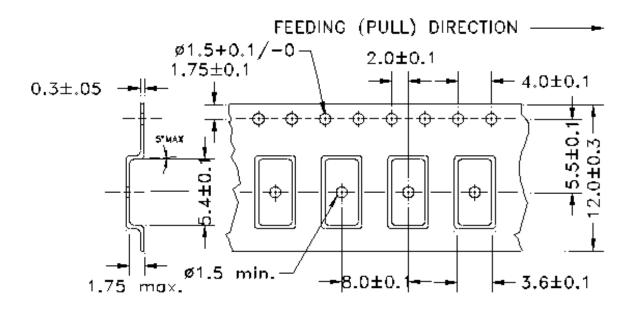
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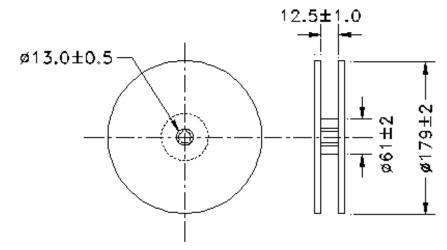


5.0 x 3.2x 1.3 mm **RoHS/RoHS II Compliant** MSL Level = N/A

Packaging

1000pcs/reel





Dimensions: mm

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