





7.0 x 4.1 x 2.0mm

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

> FEATURES:

- Reduced footprint from ABLS (standard HC/49US package) by 50%
- Low profile: 2.0mm max. height
- Suitable for RoHS compliant reflow
- Tight stability & extended temperature options
- High reliability & Cost effective
- Resistance welded metal package

> APPLICATIONS:

- Wireless Applications
- Home electronics
- Computers, modems, and communications
- Microprocessors

> STANDARD SPECIFICATIONS:

Parameters	Minimum	Typical	Maximum	Units	Notes	
Frequency Range*	12.0		40.0	MHz		
Standard Frequencies	12.0, 12.288, 13.5, 13.56, 14.31818, 14.7456, 16.0, 18.432, 20.0, 20.5, 24.0, 24.576, 25.0, 26.0, 27.0		MHz			
Operation Mode	Fundamental (AT-cut)					
Operating Temperature	0 +70		+70	°C	See options	
Storage Temperature	-40		+125	°C		
Frequency Tolerance @+25°C	-50		+50	ppm	See options	
Frequency Stability over the Operating Temperature (ref. to +25°C)	-50		+50	ppm	ppm See options	
			60		12.000 ~ 16.000MHz	
Equivalent series resistance (R1) @+25°C			40	Ω	16.001 ~ 30.000MHz	
			25		30.001 ~ 40.000MHz	
Shunt capacitance (C0)			5	pF		
Load capacitance (CL)	18			pF	Standard (See options if other than STD)	
Drive Level		50	100	μW		
Aging	-5		+5	ppm	@25°C±3°C First year	
Insulation Resistance	500			ΜΩ	@ $100 \text{Vdc} \pm 15 \text{V}$	
Drive level dependency (DLD)	10nw ~ 100uw, 12 points Change in ESR (Maximum - Minimum) over DLD range < 30% ESR max.					

^{*} Please contact Abracon for other frequencies.





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ABLS7M2





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> PART IDENTIFICATIONS: (left blank if standard)

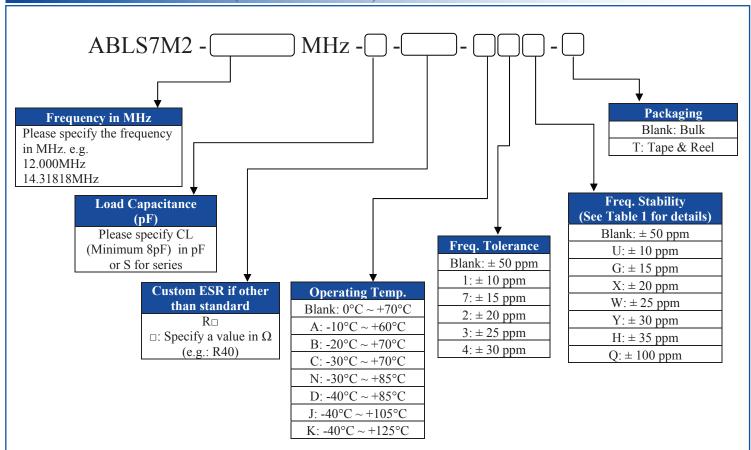


Table 1 Available Combinations of Operating Temp. and Freq. Stability

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

Note: Please contact Abracon for other frequency stability and operating temperature range options.





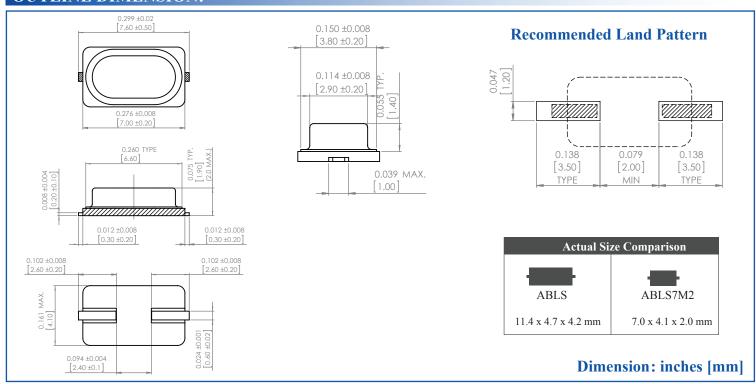
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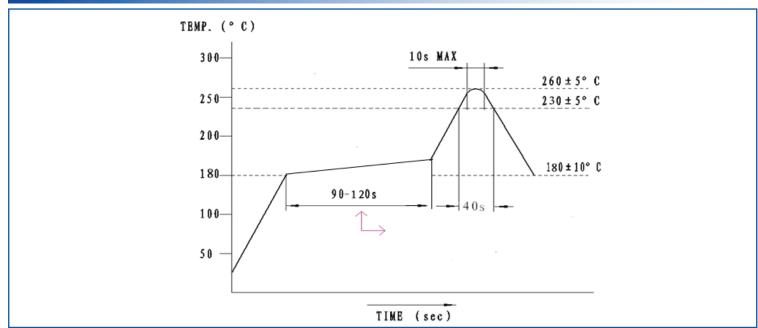


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OUTLINE DIMENSION:



REFLOW PROFILE:







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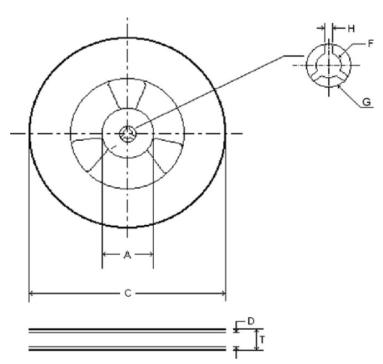




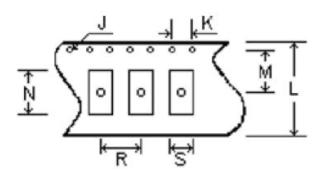
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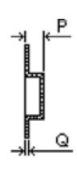
TAPE & REEL:

T = tape and reel (3000pcs/reel)



No.	Dimensions (mm)
A	100 ± 1.0
С	330 ± 2.0
D	16.4 ± 1.0
T	20.4 ± 0.5
F	13.0 ± 0.2
G	20.2 min.
Н	1.5 min.





No.	Dimensions (mm)
J	Ø1.5
K	4.0 ± 0.1
L	16.0 ± 0.3
M	7.5 ± 0.1
N	9.4 ± 0.1
P	2.5 ± 0.1
Q	0.3 ± 0.05
R	8.0 ± 0.1
S	4.4 ± 0.1

Dimensions: mm

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