

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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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	0 +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	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.





ABLS7M2





7.0 x 4.1 x 2.0mm

PART IDENTIFICATIONS: (left blank if standard)

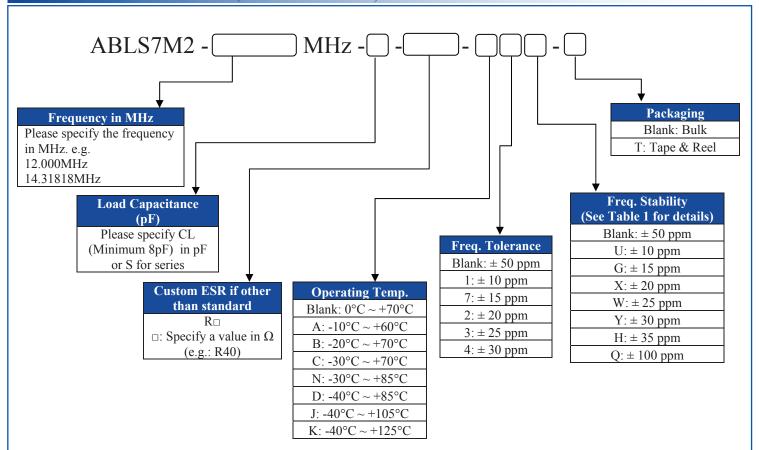


Table 1 Available Combinations of Operating Temp. and Freq. Stability

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

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





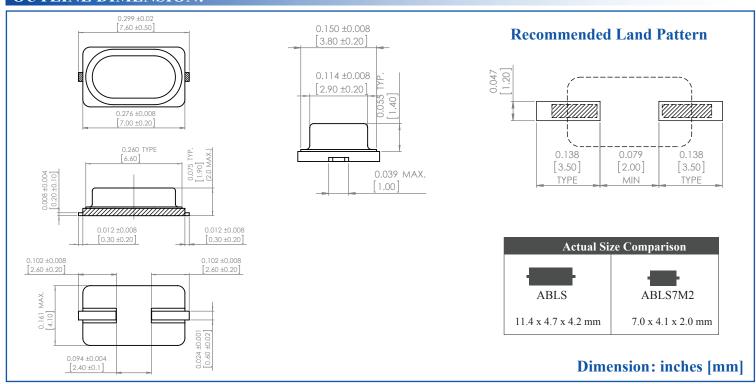




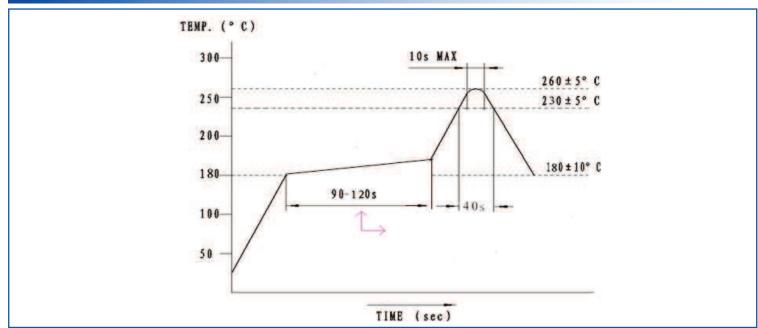


7.0 x 4.1 x 2.0mm

OUTLINE DIMENSION:



REFLOW PROFILE:







ABLS7M2

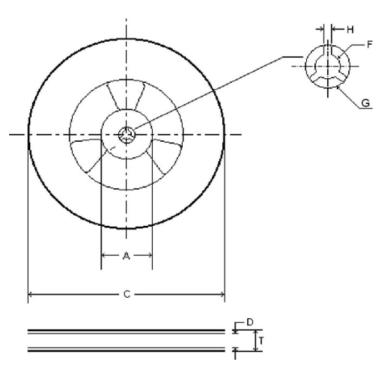




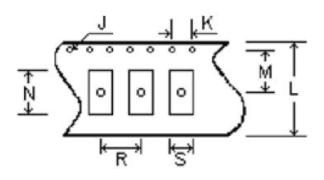
7.0 x 4.1 x 2.0mm

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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