### ABS07AIG

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3.2 x 1.5 x 0.9 mm RoHS/RoHS II Compliant MSL Level = N/A

#### Features

- AEC-Q200 Qualified
- Automotive Grade 1: -40°C to +125°C
- TS16949 Production Line Certified
- PPAP Available Upon Request
- Hermetically Seam-sealed Ceramic Package
- RoHS/RoHS II Compliant and Pb free

### Applications

- Infotainment Systems
- Keyless Entry & Startup
- GPS & Navigation
- Comfort control
- ADAS (Advanced Driver Assistance Systems)

(14)

- Vehicle to Vehicle Communication
- LiDAR (Light Detection and Ranging)
- In-vehicle Networking
- Powertrain & Drive Control
- Power Control & Conversion

Parameters	Min.	Тур.	Max.	Units	Notes	
Frequency	32.768		kHz			
Operation Mode	Flexural Mode (Tuning Fork)					
Operating Temperature	-40		+125	°C	Option "blank"; See options	
Storage Temperature	-55		+125	°C		
Frequency Tolerance @ +25°C	-20		+20	ppm	Option "blank"; See options	
Temperature Coefficient	-0.040	-0.036		ppm/T <sup>2</sup>		
Turn-over Temperature	+20	+25	+30	°C		
Equivalent series resistance (ESR)			70		Over -40°C to +85°C	
			70	kΩ	Over -40°C to +105°C	
			80	_	Over -40°C to +125°C	
Shunt capacitance (C0)		<1.4		pF		
Motional capacitance (C1)		3.0 ~ 6.0		fF		
Load capacitance (CL)		12.5		pF	Option "blank"; See options	
Drive Level		0.1	0.5	μW		
Q value	10000	30000				
Aging	-3		+3	ppm	@25°C± 3°C First year	
Insulation Resistance	500			MΩ	@ 100 Vdc	

#### **Key Electrical Specifications**



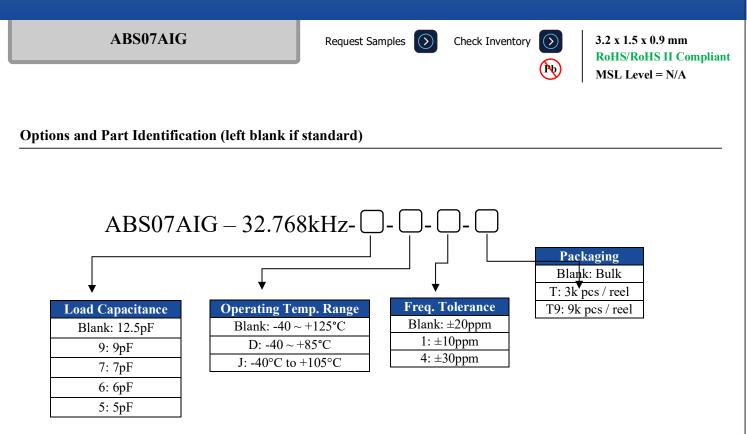
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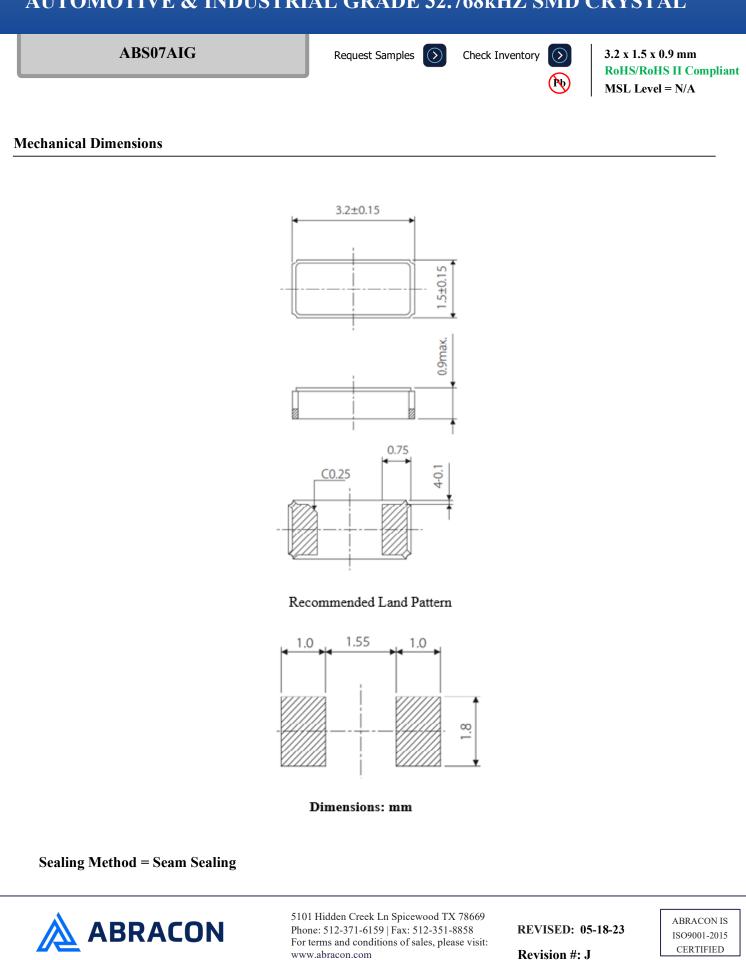
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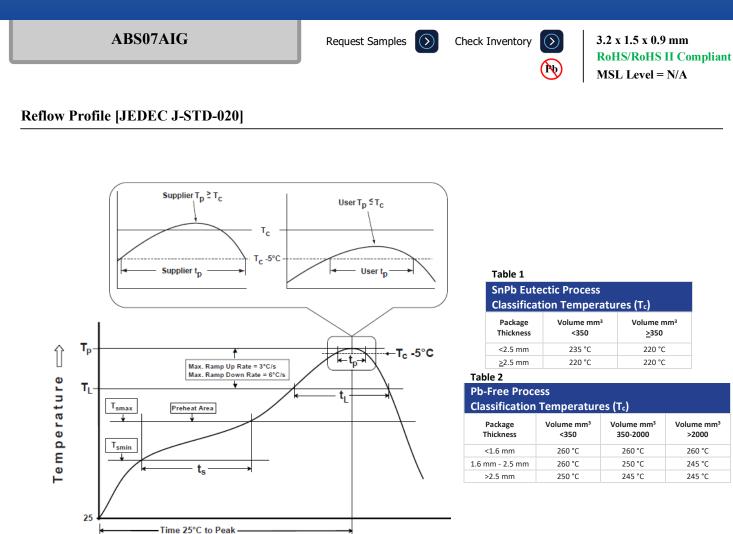
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Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Preheat / soak		
Temperature minimum (T <sub>smin</sub> )	100°C	150°C
Temperature maximum (T <sub>smax</sub> )	150°C	200°C
Time (T <sub>smin</sub> to T <sub>smax</sub> ) (t <sub>s</sub> )	60 - 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 <sub>L</sub> )	183°C	217°C
Time at liquidous (t <sub>L</sub> )	60 - 150 sec.	60 - 150 sec.
Peak package body temperature (T <sub>P</sub> )*	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 <sub>p</sub> to T <sub>smax</sub> )	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<sub>P</sub>) 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.



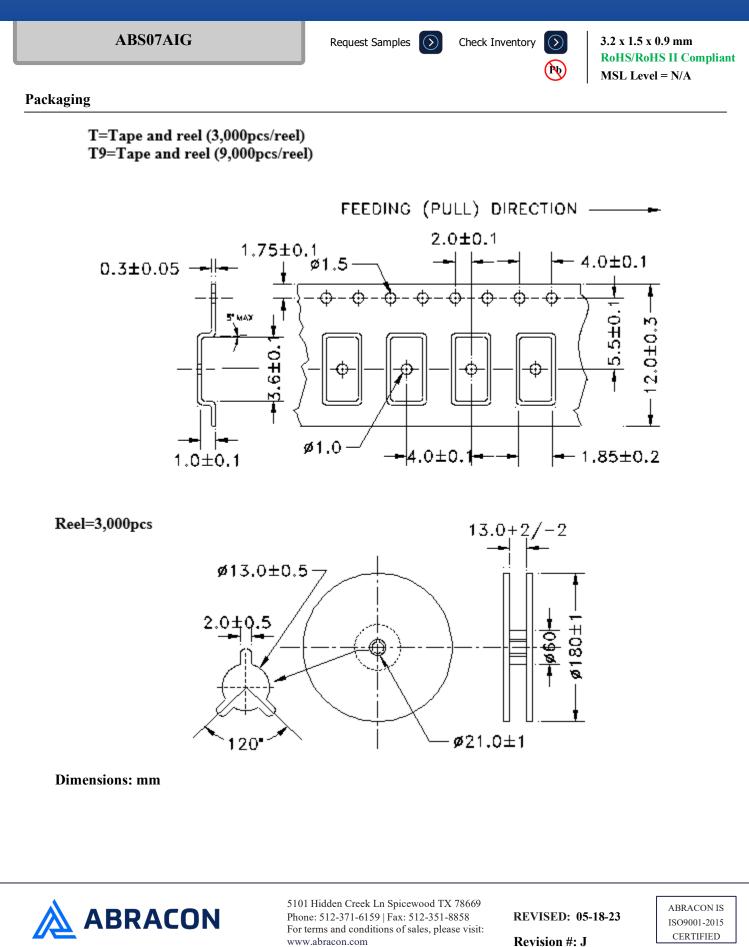
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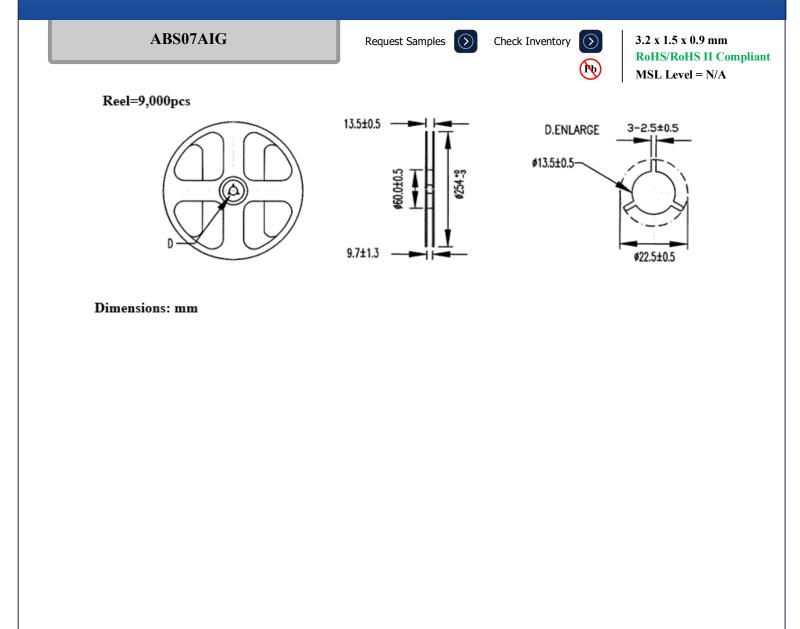
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