

ABM8GAIG

Pb in glass (exempt 7(c) - I per RoHS II 2011/65/EU Annex)

3.2 x 2.5 x 0.8 mm RoHS/RoHS II Compliant MSL = N/A: Not Applicable

Features

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

Applications

- Infotainment Systems
- Keyless Entry & Startup
- GPS & Navigation
- · Comfort control
- ADAS (Advanced Driver Assistance Systems)
- Vehicle to Vehicle Communication
- LiDAR (Light Detection and Ranging)
- In-vehicle Networking
- Powertrain & Drive Control
- Power Control & Conversion
- Industrial Control & Automation

Electrical Specifications

Parameters	Min.	Тур.	Max.	Units	Notes
Frequency Range	10.000		54.000	MHz	
Operation Mode	Fundamental				
Operating Temperature	-40		+125	°C	Option "blank"; See options
Storage Temperature	-40		+125	°C	
Frequency Tolerance @ +25°C	-50		+50	ppm	Option "blank"; See options
Frequency Stability over the Operating Temperature (ref. to +25°C)	-100		+100	ppm	Option "blank"; See options
Equivalent series resistance (R1)			200		10.000 – 12.000 MHz
			100		12.000 – 15.999 MHz
			80	Ω	16.000 – 19.999 MHz
			60		20.000 – 54.000 MHz
Shunt capacitance (C0)			2.0	pF	
Load capacitance (CL)	10			pF	Option "blank"; See options
Drive Level		10	100	μW	
Aging	-2		+2	ppm	@25°C± 3°C First year
Insulation Resistance	500			ΜΩ	@ $100 \text{ Vdc} \pm 15 \text{ V}$



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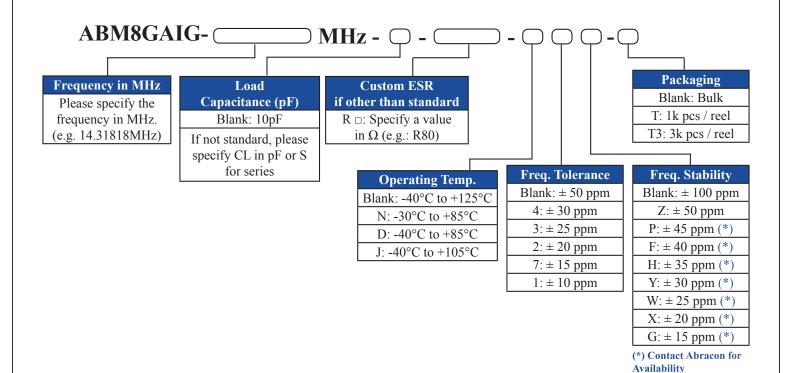


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Options and Part Identification (left blank if standard)





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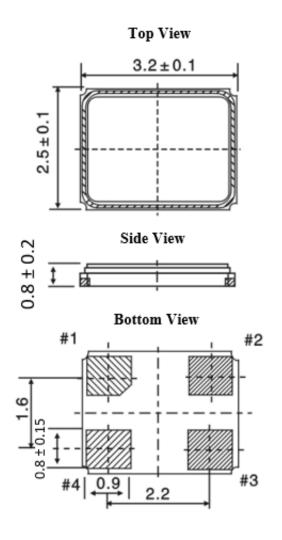


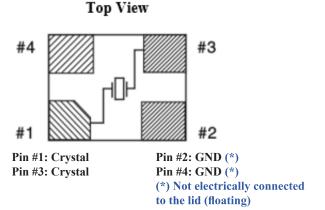
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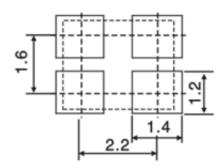
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Mechanical Dimensions





Recommended Land Pattern



Note: Due to availability of raw materials, this part may be manufactured with the chamfer on pin 1 or pin 4. Be advised that this does not affect the electrical characteristics of the crystal in any way.

Dimensions: mm



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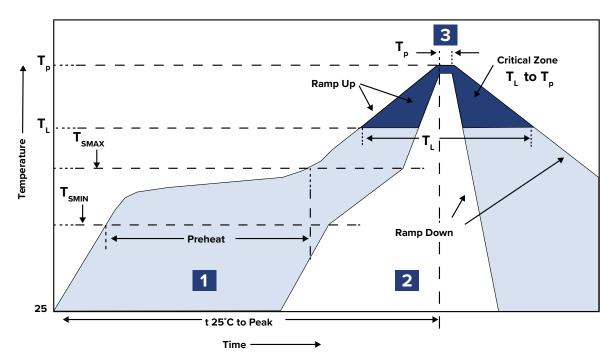


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Reflow Profile



Zone	Description	Temperature	Time
1	Preheat / Soak	$T_{\text{SMIN}} \sim T_{\text{SMAX}}$ $150^{\circ}\text{C} \sim 180^{\circ}\text{C}$	60 ~ 120 sec.
2	Reflow	Т _ь 230°С	30 ∼ 40 sec.
3	Peak heat	Т _Р 260°С±5°С	10 sec. MAX





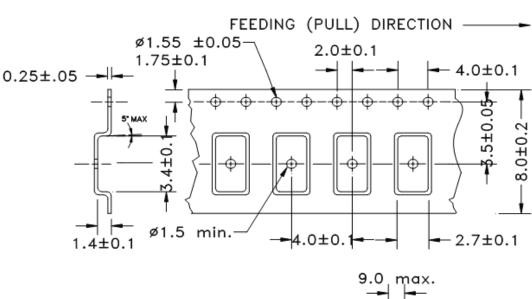
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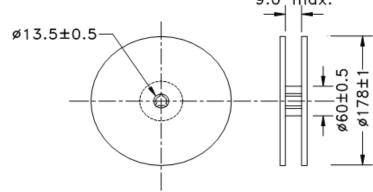
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Packaging

Tape and Reel: T: 1,000pcs/reel T3: 3,000pcs/reel





Dimensions: mm

ATTENTION: Abracon LLC's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLC is required. Please contact Abracon LLC for more information.



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