One-Port SMD SAW Resonator



🚵 ESD Sensitive





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

FEATURES:

- One port resonator
- SMD ceramic package:5.0 x 5.0 x 1.35mm
- Provides reliable, fundamental mode, quartz frequency stabilization

STANDARD SPECIFICATIONS:

Maximum Rating

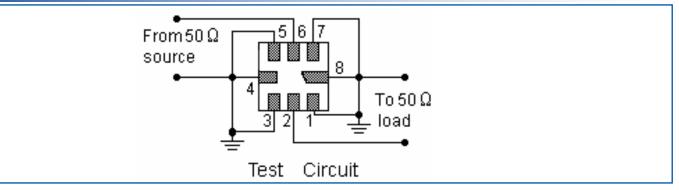
Parameters	Minimum	Typical	Maximum	Units	Notes
DC Voltage between any terminals	-30		+30	V _{DC}	
Operation Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
RF Power Dissipation			0	dBm	

Key Electrical Specifications

Test temperature: +25°C±2°C; Terminating source impedance: 50Ω; Terminating load impedance: 50Ω

	Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f ₀)		868.200	868.350	868.500	MHz	
Insertion Loss			1.6	2.2	dB	
Quality Factor	Unloaded Q		9000			
	50Ω Loaded Q		1500			
Temperature Stability	Turnover Temperature	25		55	°C	
	Frequency Temperature Coefficient		0.032		ppm/°C ²	
RF Equivalent RLC Model	Motional Resistance R ₁		20	29	Ω	
	Motional Inductance L ₁		33.0079		μH	
	Motional Inductance C ₁		1.0188		fF	
	Shunt Static Capacitance C ₀	2.25	2.55	2.85	pF	
Frequency Aging (first year)			≤10		ppm/yr	
DC Insulation Resistance		1.0			MΩ	

> TEST CIRCUIT







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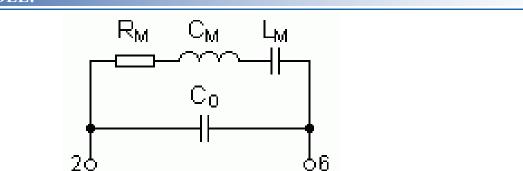
> APPLICATIONS:

- Remote control
- Wireless security

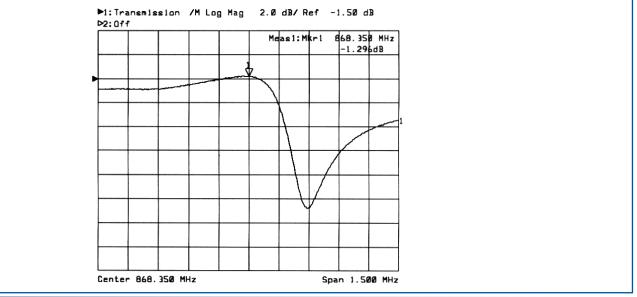
One-Port SMD SAW Resonator

ASR868.35E

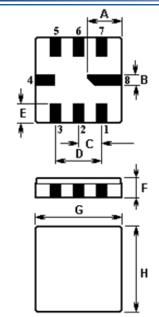
EQUIVALENT MODEL:



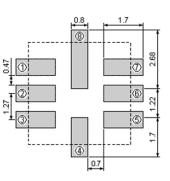
TYPICAL FREQUENCY RESPONSE:



OUTLINE DRAWING:



Recommended Land Pattern



Item	Dimension (mm)
Α	2.08
В	0.6
С	1.27
D	2.54
Е	1.2
F	1.35
G	5.0
Н	5.0

Pin #	Function		
2	Terminal 1		
6	Terminal 2		
4,8	Case Ground		
1,3,5,7	NC		

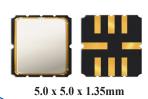
Dimensions: mm

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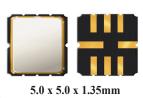
(Pb) RoHS/RoHS II Compliant



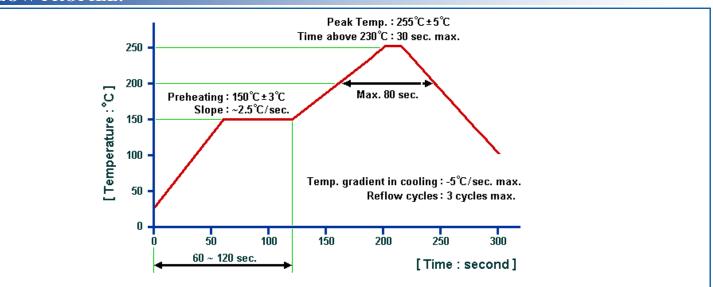
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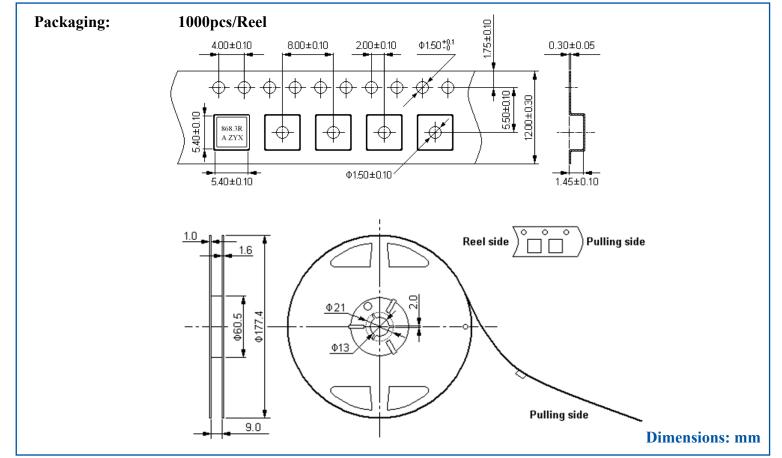
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TAPE & REEL:



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