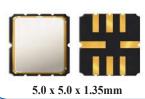
One-Port SMD SAW Resonator



🚵 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

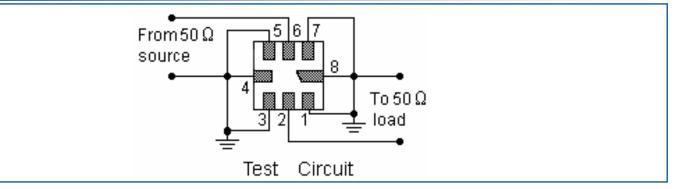
Parameters	Minimum	Typical	Maximum	Units	Notes
DC Voltage between any terminals	-30		+30	V _{DC}	
Operation Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
RF Power Dissipation			0	dBm	

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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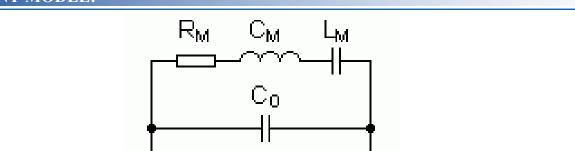
> APPLICATIONS:

- Remote control
- Wireless security

One-Port SMD SAW Resonator

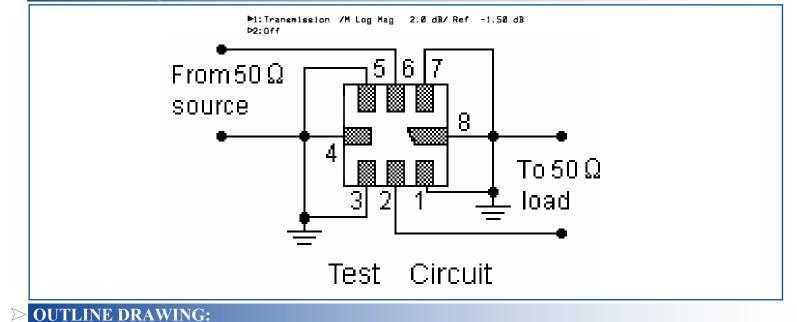
ASR868.35E

EQUIVALENT MODEL:



TYPICAL FREQUENCY RESPONSE:

2ċ



Recommended Land Pattern 7 б 2.0 dB ▶1:Transmis-'-Item **Dimension (mm)** 2.08 A ⊳2:0ff 8 0.6 p 2.68 Meas1:Mkr1 868.2358 MHz 0.47 0 Ē <u>^{2.54}296dВ</u> 6 0 3 1.35 .27 5.0 6 5.0 4 Pin # Function 0.7 Terminal 1 Terminal 2 1 Case Ground .8 1,3,5,7 NC **Dimensions: mm** Revised: 09.22.15 ABRACON IS ISO9001:2008 CERTIFIED l Conditions of Sale L



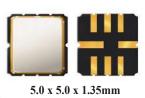
(Pb) RoHS/RoHS II Compliant

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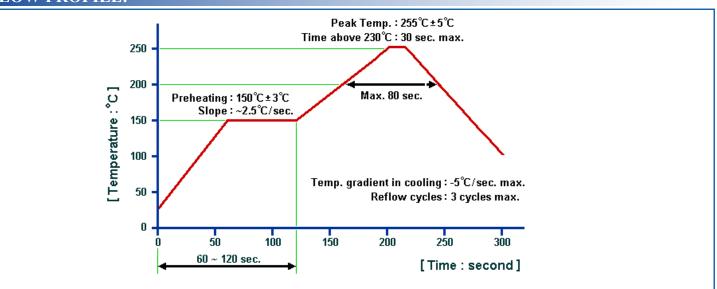
One-Port SMD SAW Resonator

ASR868.35E

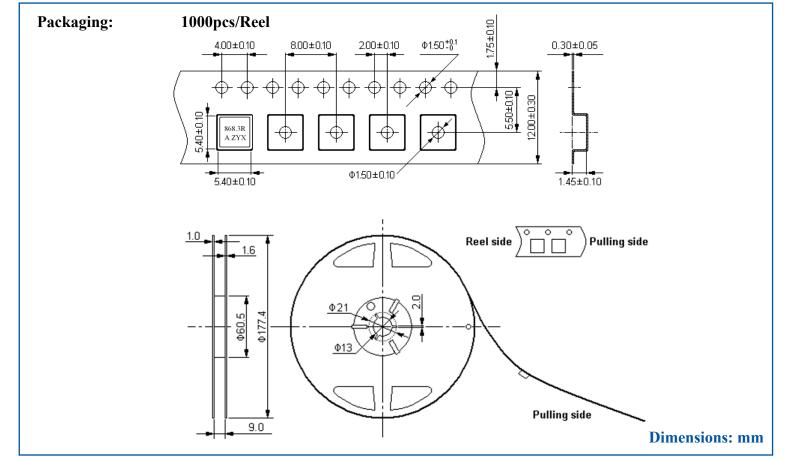
(Pb) RoHS/RoHS II Compliant



REFLOW PROFILE:



TAPE & REEL:



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