

SMD TWO PORT 915.00E MHz SAW RESONATOR

ASQ915E

APPLICATION: Automotive Electronics/Remote Control



5 x 5 x 1.35mm

STANDARD SPECIFICATIONS:

CHARACTERISTICS		UNIT	MIN.	TYP.	MAX.
Center Frequency Fo		MHz	914.850	915.000	434.020
Tolerance from Fo		KHz		±150	
Insertion Loss		dB	-	7	9.0
Quality Factor	Unloaded	-		6,649	
	50Ω loaded			4,000	
Temperature Stability	Turnover Temperature	°C	25	40	55
	Turnover Frequency	KHz		Fc	
	Freq. Temp. Coefficient	ppm/°C ²		0.037	
Frequency Aging		ppm/year		±10	
DC Insulation Resistance		MΩ	1.0		
RF Equivalent RLC Model	Motional Resistance R ₁	Ω		151	
	Motional Inductance L ₁	μH		174.724	
	Motional Capacitance C ₁	fF		0.1733	
	Shunt Capacitance C ₀	pF	1.5	1.8	2.1
Operating temp.		°C	-25°C to +85°C		
Storage temp.		°C	-40°C to +85°C		
Max. Rating	DC voltage	V	±10		
RF Power Dissipation		dBm	10		

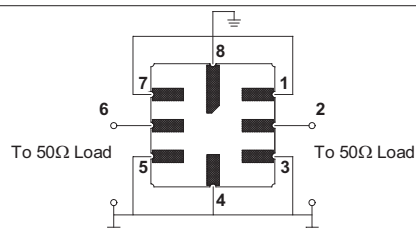
Electrostatic Sensitive Device. Handle with precaution.

MARKING:

- ASQ915ZY
(Z for month from A to L;
Y for year, i.e. 4 for 2004)

PIN NO.	CONNECTIONS
2	Input/Output
6	Output/Input
4 & 8	Case GND
1,3,5,7	N/C

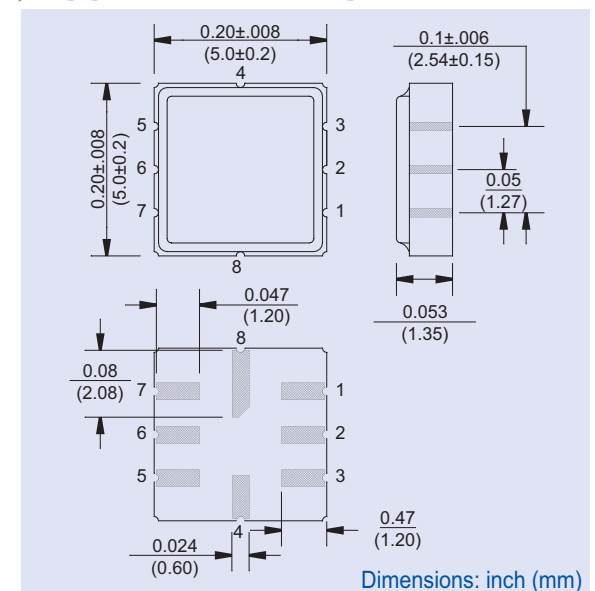
TEST CIRCUIT:



NOTES:

- 1) Frequency aging is specified at 65°C or less.
- 2) The center frequency Fc, is the frequency of minimum IL with the resonator in the specified test fixture in a 50Ω test system with VSWR ≤ 1.2.
- 3) Unless otherwise specified, case temperature is 25°C ± 2°C.
- 4) The design model values are for reference only. The capacitance C0 is the measured static capacitance between either pin 1 and ground or pin 2 to ground.

OUTLINE DRAWING:



ABRACON IS
ISO 9001 / QS 9000
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