



Total Solution Provider in Saw Device

SR1090AM

1-Port SAW Resonator
Revision 1: May 2013



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
 - Frequency Characteristics
-

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□ Electrical Characteristics

Maximum Ratings

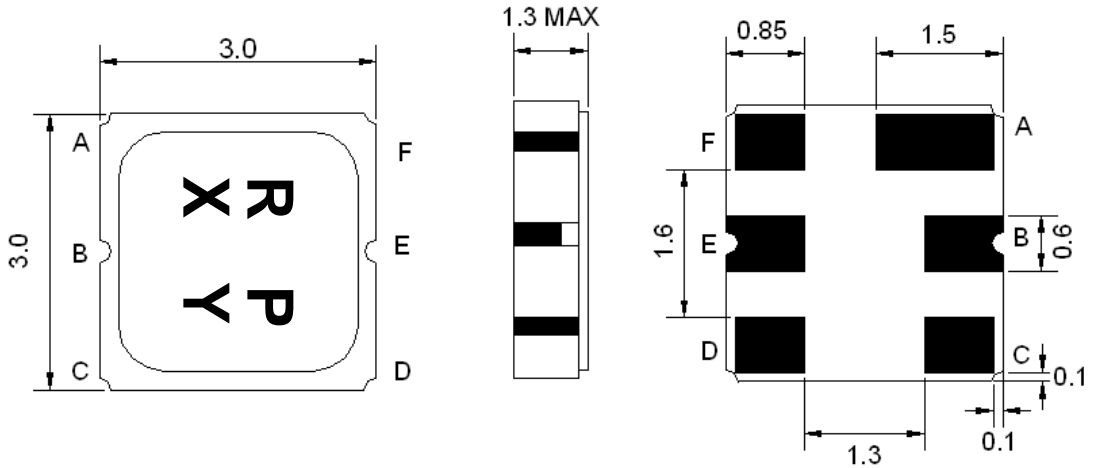
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fr)	MHz	1089.945	1090.025	1090.105
Insertion Loss	dB	-	1.8	2.5
Equivalent Elements				
Motional Capacitance (C1)	fF	-	1.03	-
Motional Inductance (L1)	μH	-	20.34	-
Motional Resistance (R1)	Ω	-	18.63	-
Parallel Capacitance (Co)	pF	-	2.24	-
Temp. coeff.	ppm/c ²	-	0.032	-
Turnover To	deg.C	-	25	-

Notes : (1) No Matching Network (Ref. Testing Environment Circuit as shown below).

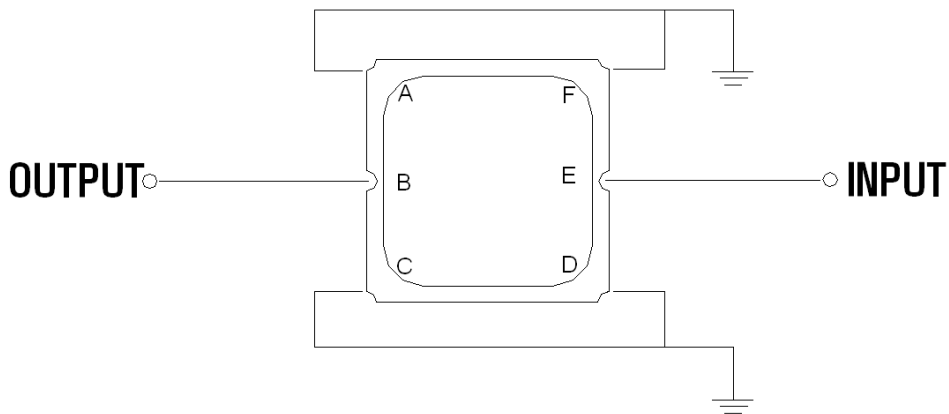
Package Dimensions



Marking Descriptions	
R	Resonator Application
P	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
A, C, D, F	Ground
E	In or Out
B	Out or In

Testing Environment



Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response

