



*Total Solution Provider in Saw Device*

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# SR-100001-S20

Remote Control, 1-Port SAW Resonator  
Revision 0: December 2013



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

### Maximum Ratings

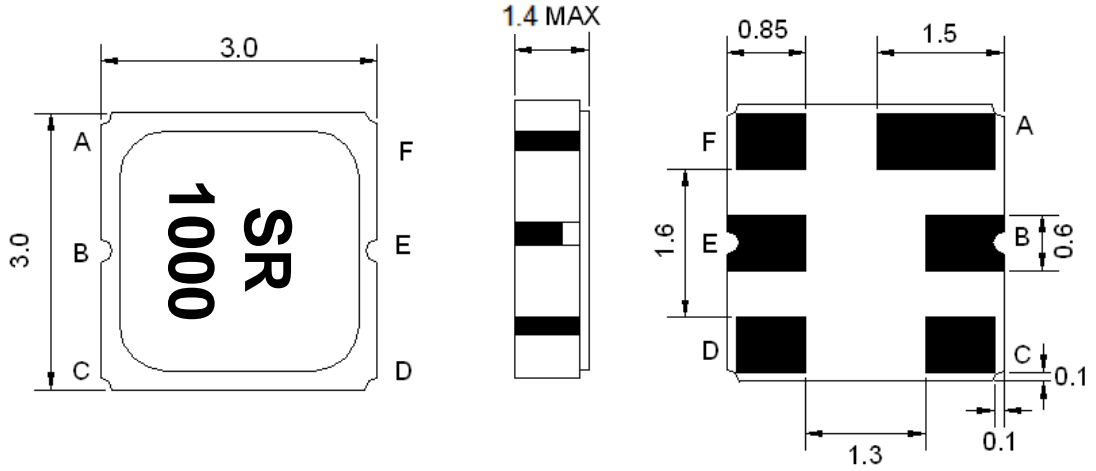
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	S20			
Length x Width	mm <sup>2</sup>	-	3.0 x 3.0	-
Height	mm	-	-	1.3

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fr)	MHz	1000.100	1000.200	1000.300
Insertion Loss (IL)	dB	-	1.4	2.0
<b>Equivalent Elements</b>				
Motional Capacitance (C1)	fF	-	1.654	-
Motional Inductance (L1)	μH	-	15.3	-
Motional Resistance (R1)	Ω	-	10.7	-
Parallel Capacitance (Co)	pF	-	2.75	-
Temp. coeff	ppm/c*2	-	0.032	-
Turnover To	deg.C	-	40	-

**Notes :** (1) No Matching Network .

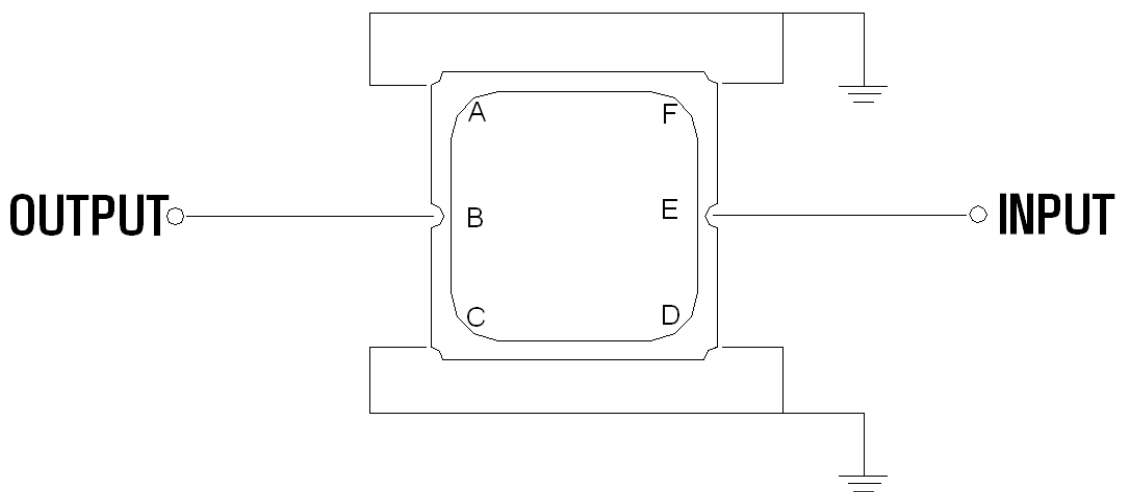
**□ Package Dimensions**



Marking Descriptions	
SR	SAWNICS Resonator
1000	Center Frequency

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

**□ Testing Environment**



Source & Load Impedance: 50 Ω

## □ Frequency Characteristics

Frequency Response

