



Total Solution Provider in Saw Device

SR-050001-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

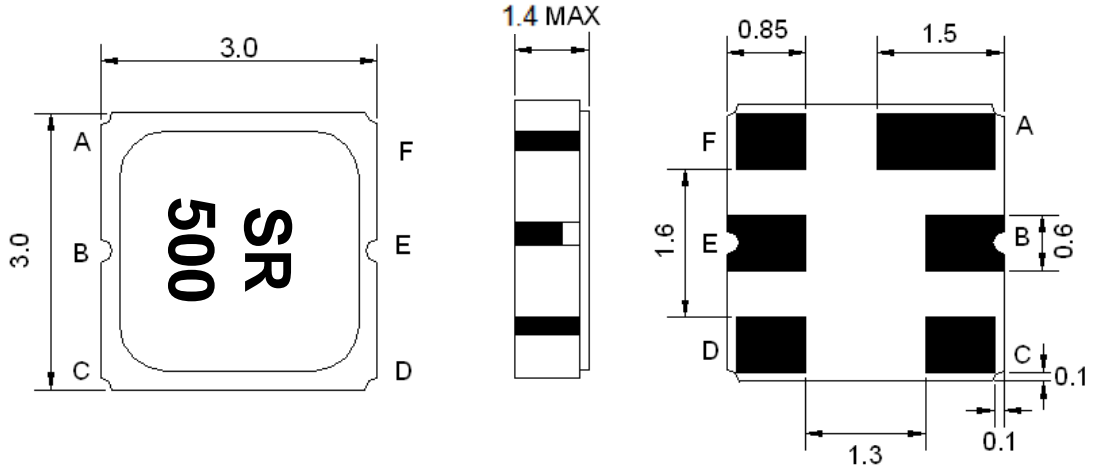
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	S20			
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	500.050	500.100	500.150
Insertion Loss (IL)	dB	-	1.0	2.0
Equivalent Elements				
Motional Capacitance (C1)	fF	-	3.07	-
Motional Inductance (L1)	μH	-	32.96	-
Motional Resistance (R1)	Ω	-	13.96	-
Parallel Capacitance (Co)	pF	-	4.35	-
Temp. coeff	ppm/c*2	-	0.032	-
Turnover To	deg.C	-	40	-

Notes : (1) No Matching Network .

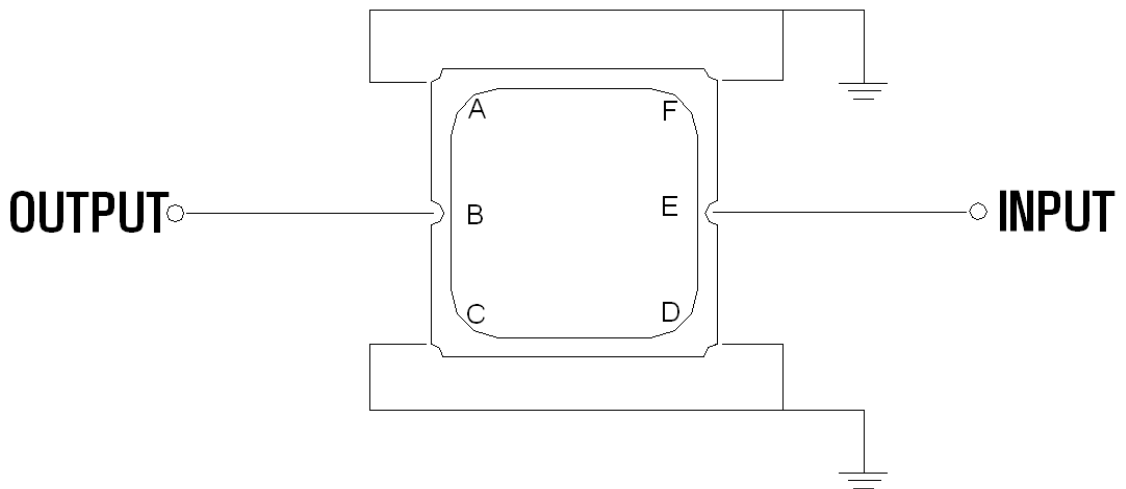
□ Package Dimensions



Marking Descriptions	
SR	SAWNICS Resonator
500	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

