



Total Solution Provider in Saw Device

SR-031501-SF0

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



- Electrical Characteristics
 - Package Dimensions
 - Testing Environment
-

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□ Electrical Characteristics

Maximum Ratings

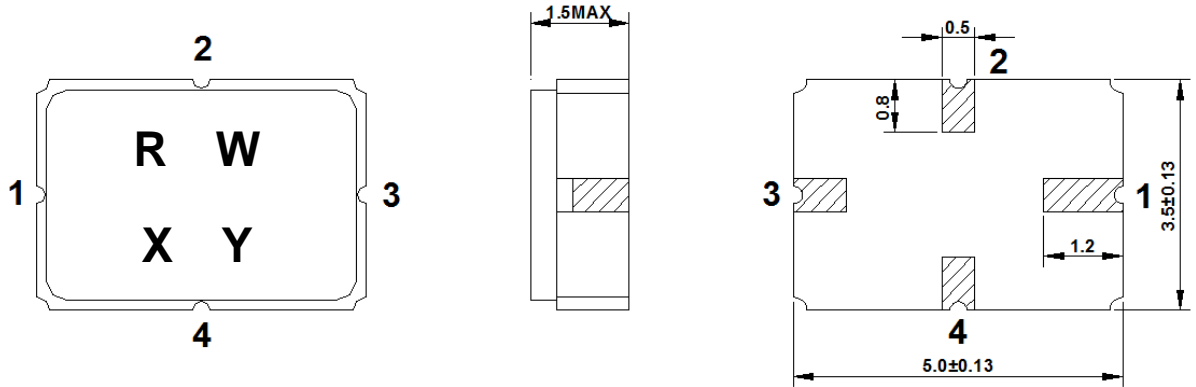
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+80
Storage Temperature Range	°C	-45	-	+85
Maximum DC Voltage	V	-	-	10
Maximum Input Power	dBm	-	-	0
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	SF0			
Length x Width	mm ²	-	5.0 x 3.5	-
Height	mm	-	-	1.5

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	314.925	315.00	315.075
Insertion Loss (IL)	dB	-	1.7	2.4
Unloaded Quality Factor (Q _U)	-	-	12200	-
50Ω loaded Quality Factor (Q _L)	-	-	1500	-
Temperature Stability				
Turnover Temperature	°C	-	25	-
Frequency Temperature Coefficient	ppm/°C	-	0.032	-
Frequency Aging	ppm/yr	-	<±10	-
DC Insulation Resistance Between Any Two Terminals	MΩ	1.0	-	-
Equivalent Elements				
Motional Resistance (R _M)	Ω	-	14	25
Motional Inductance (L _M)	μH	-	86	-
Motional Capacitance (C _M)	fF	-	2.95	-
Shunt Static Capacitance (C _O)	pF	2.1	2.4	2.7

Notes : (1) No Matching Network .

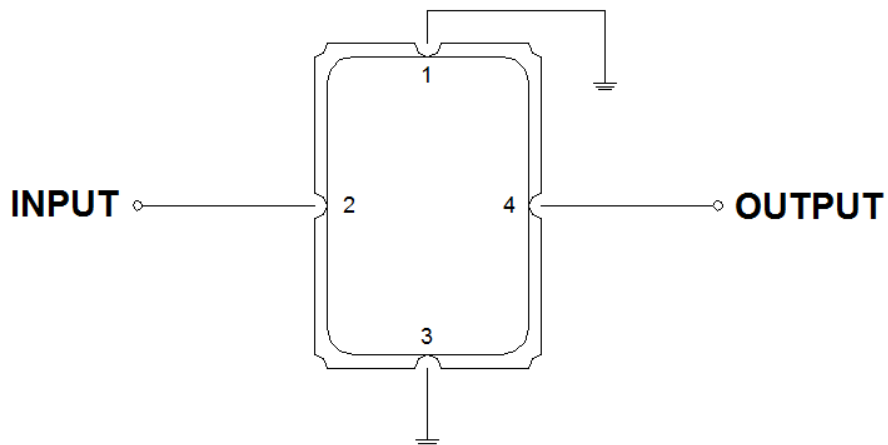
Package Dimensions



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

Pin Description	
1, 3	Ground
2	Input
4	Output

Testing Environment



Source & Load Impedance: 50 Ω