

Product Specification	Abundance Enterprise Co.	Original Date	05/07/2008
	Abundance Enter prise Co.	PN:	SR433.92-75-DCC6C

1. GENERAL PROVISION

- 1-1 Production Name: SMD Saw Resonator
- 1-2 Holder Type: SR433.92-75-DCC6C
- 1-3 This specification relates to the SAW resonator to be supplied by Abundance Enterprise Co. (AEC).

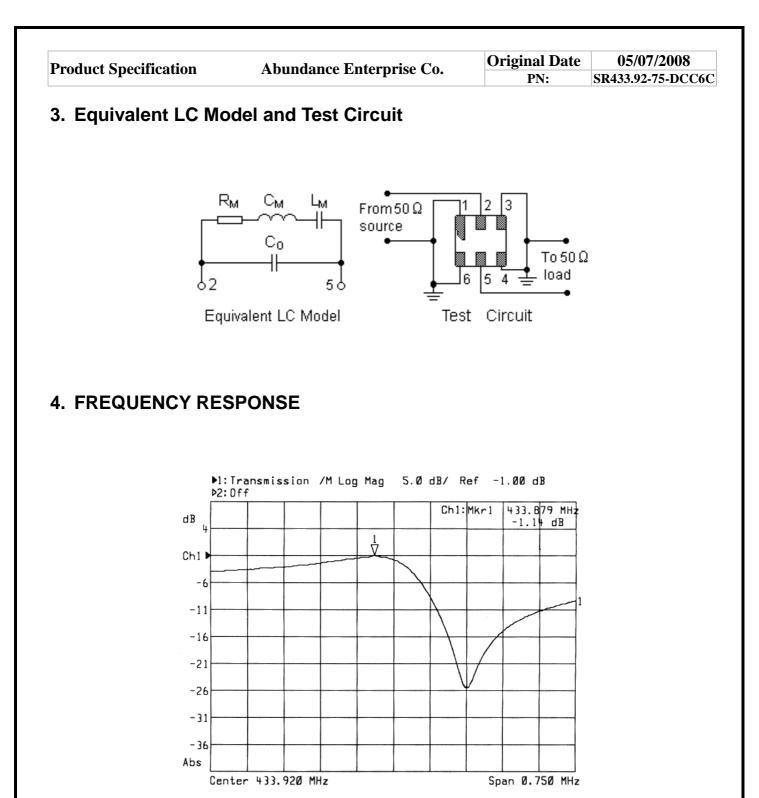
2. DIMENSION

		->+	В		
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¥ A ₩	2				5 D
т	1				6 1
	-3	C		-	
					¥
			Π		ΓŢΕ
		-	F		т I
		ł			G

Pin	Configuration
2	Input / Output
5	Output / Input
1,3,4,6	Ground

Sign	Data (unit: mm)	Sign	Data (unit: mm)
А	0.6	E	1.1
В	1.5	F	3.0
С	1.5	G	3.0

• — •		NO.	Revised DATE	Ν	MODIFY CONTENTS		
AEC		1	2006.1.4	NEW UPDATE			
Abundance Enterprise Co.							
DIMENTION	mm						
SCALE		MODEL		SAW Resonator			
TOLERANCE	±0.2	PA	ART NAME	SRM433.92-75-DCC6C		С	
DRAWING NO.				APPV'D BY	CHECK BY	DRAWN BY	
433.92-SRM			Henkie	Andy	Nathan		



5. ELECTRICAL SPECIFICATION

5-1.Maximum Ratings

Rating		Value	Unit
CW RF Power Dissipation	Р	0	dBm
DC Voltage Between Terminals	V _{DC}	±30	V
Storage Temperature Range	$T_{\rm stg}$	-40 to +85	°C
Operating Temperature Range	T _A	-10 to +60	°C

5-2. Electronic Characteristics

	Characteristic	Sym	Minimum	Typical	Maximum	Unit
Center Frequency	Absolute Frequency	f _C	433.845		433.995	MHz
(+25℃)	Tolerance from 433.920 MHz	Δf_{C}		±75		kHz
Insertion Loss		١L		1.6	2.0	dB
Quality Easter	Unloaded Q	QU		10,200		
Quality Factor	50 Ω Loaded Q	QL		1,700		
Tomore the	Turnover Temperature	T ₀	25		55	°C
Temperature Stability	Turnover Frequency	f ₀		f _C		kHz
Stability	Frequency Temperature Coefficient	FTC		0.032		ppm/℃ ²
Frequency Aging Absolute Value during the First Year		fA		≤10		ppm/yr
DC Insulation Resis	DC Insulation Resistance Between Any Two Terminals		1.0			MΩ
	Motional Resistance	R _M		20	26	Ω
RF Equivalent	Motional Inductance	L _M		74.8619		μH
RLC Model	Motional Capacitance	C _M		1.7989		fF
	Shunt Static Capacitance	C ₀	1.65	1.95	2.25	pF

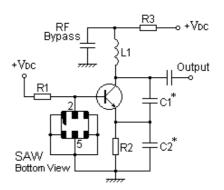
©CAUTION: Electrostatic Sensitive Device. Observe precautions for handling!

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6. Typical Application Circuit

1) Low-Power Transmitter Application

Modulation Input Bypass Hotom View SAW Bottom View



2) Local Oscillator Application

7. Notes

- 1. The center frequency, f_C , is measured at the minimum IL point with the resonator in the 50 Ω test system.
- 2. Unless noted otherwise, case temperature $T_C = +25^{\circ}C \pm 2^{\circ}C$.
- Frequency aging is the change in f_c with time and is specified at +65°C or less. Aging may exceed the specification for prolonged temperatures above +65°C. Typically, aging is greatest the first year after manufacture, decreasing in subsequent years.
- 4. Turnover temperature, T₀, is the temperature of maximum (or turnover) frequency, f₀. The nominal frequency at any case temperature, T_c, may be calculated from: $f = f_0 [1 FTC (T_0 T_c)^2]$.
- This equivalent RLC model approximates resonator performance near the resonant frequency and is provided for reference only. The capacitance C₀ is the measured static (nonmotional) capacitance between the two terminals. The measurement includes case parasitic capacitance.
- Derived mathematically from one or more of the following directly measured parameters: f_C, IL, 3 dB bandwidth, f_C versus T_C, and C₀.
- 7. The specifications of this device are based on the test circuit shown above and subject to change or obsolescence without notice.
- 8. Typically, equipment utilizing this device requires emissions testing and government approval, which is the responsibility of the equipment manufacturer.

Our liability is only assumed for the Surface Acoustic Wave (SAW) component(s) per se, not for applications, processes and circuits implemented within components or assemblies.

For questions on technology, prices and delivery, please contact our sales offices or e-mail sales@aeccrystal.com