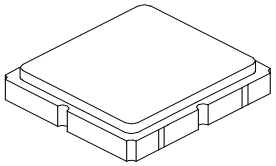
RFMi
BRAND OF AKOUSTIS

RoHS compliant

RO4102E

915.0 MHz SAW Resonator



SM3030-6

FEATURES:

- 1. 2-Port Resonator.

MAXIMUM RATING:

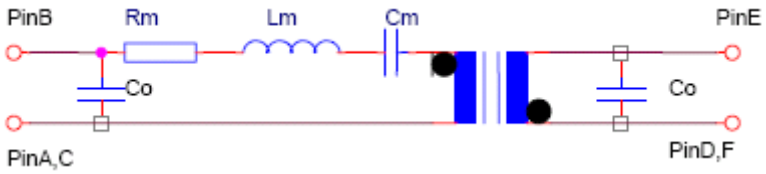
- Input Power Level: 0 dBm
- DC voltage: 12 V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: Level 1(**MSL1**)

ELECTRICAL CHARACTERISTICS:

Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fr**	**MHz**	914.850	915.0	915.150
Insertion Loss **IL**	**dB**	-	6.3	8.5
Equivalent Elements				
Unloaded Q	**Qu**	1900	2300	-
50 Ohm Loaded Q	**Ql**	900	1366	-
Motional capacitance **C1**	**fF**	-	0.52	-
Motional inductance **L1**	**μH**	-	58.45	-
Motional resistance **R1**	**Ohm**	-	158.22	-
Parallel capacitance **Co**	**pF**		0.51	-
Temp.coeff.	**ppm/c*2**	-	0.032	-
Phase Fc		-	115	-
Turnover To	**deg.C**	-	25	-
Package size		SMD 3X3X1.4mm		

EQUVIRENT CIRCUIT:

Two-Port Resonator:



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

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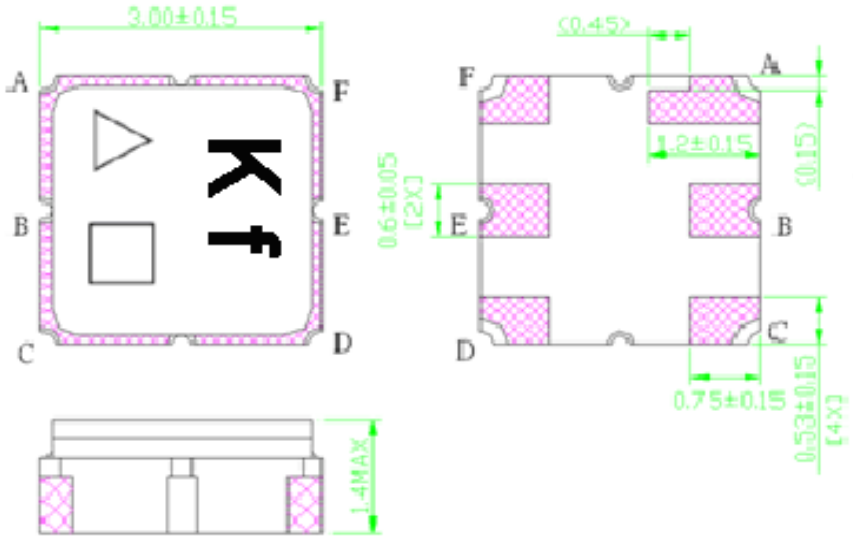
OUTLINE DRAWING:



E: Output
A, C, D, F: Ground
Unit: mm

△ : Year Code (2009->9, 2010->0,..., 2018->8)

☐ Data code : See the table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

Δ Year code : See the table

Year	2008	2009	2010	2011	...	2019	2020
Code	8	9	0	1	...	9	0

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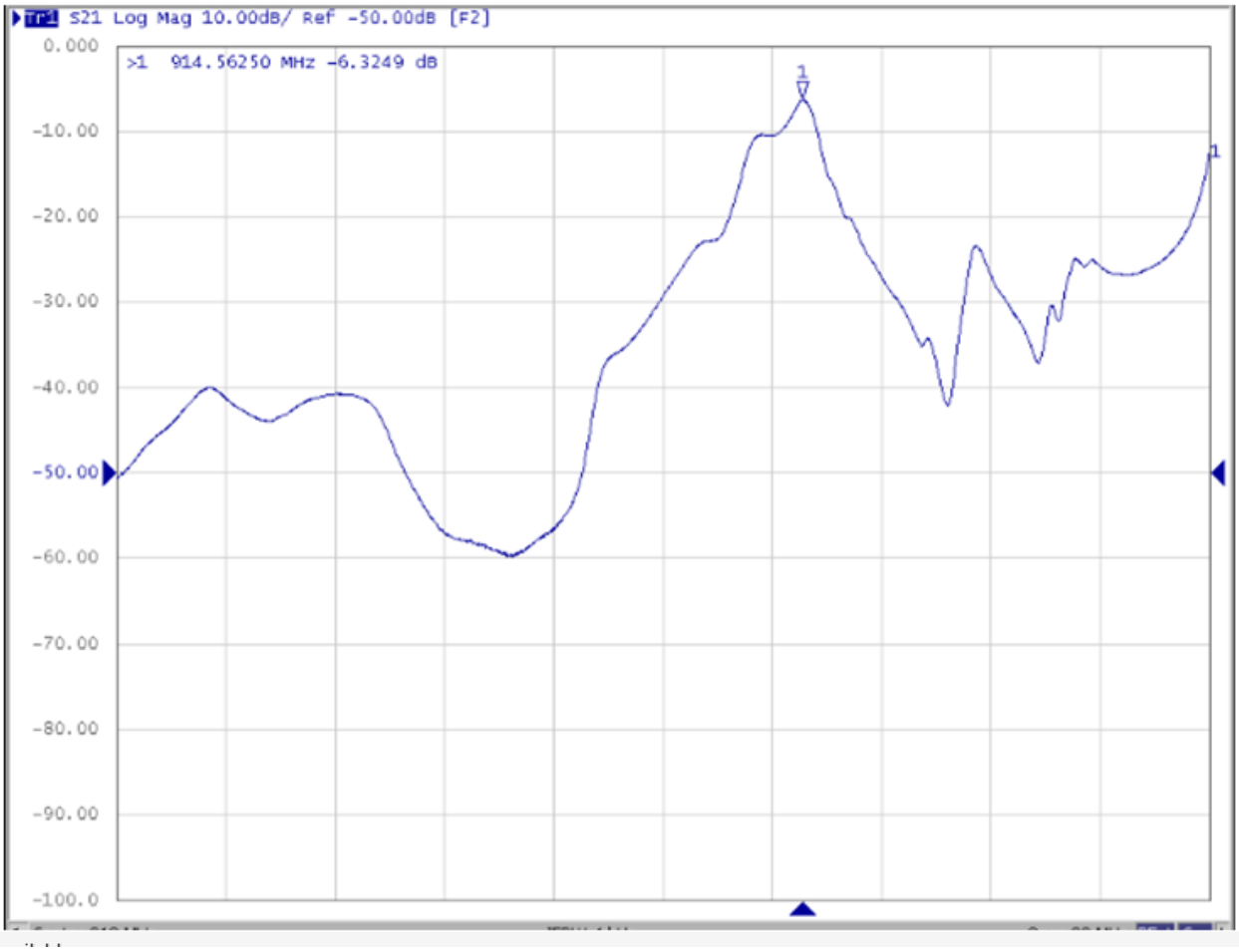
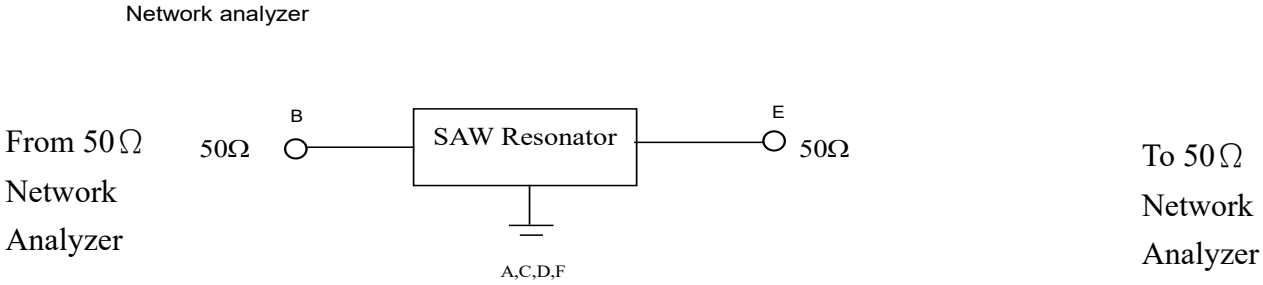
FREQUENCY CHARACTERISTICS:



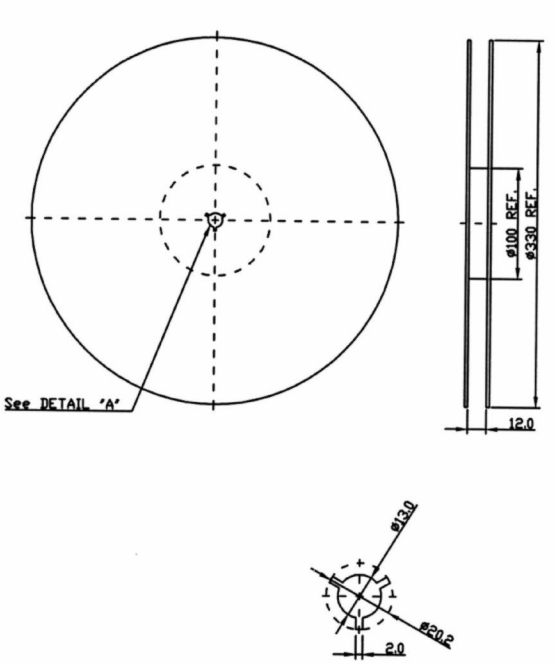
TEST CIRCUIT:



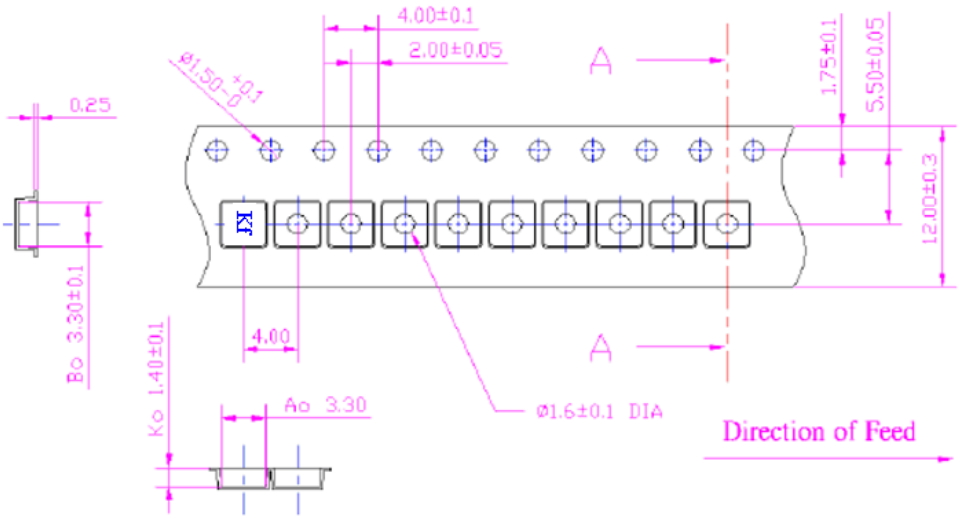
PACKING:

1. REEL DIMENSION

Reel Count:
7" = 500
13" = 3000



2. TAPE DIMENSION



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RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.