SAW Resonator 915 MHz

MODEL NO.: TC0278A REV. NO.:1

RoHS Compliant
Lead free
Lead-free soldering

A. FEATURES:

1. 1-Port Resonator.

B. MAXIMUM RATING:

1.Input Power Level: 0 dBm

2.DC voltage: 3 V

3.Operating Temperature: -40°C to +85°C

4.Storage Temperature: -40°C to +85°C

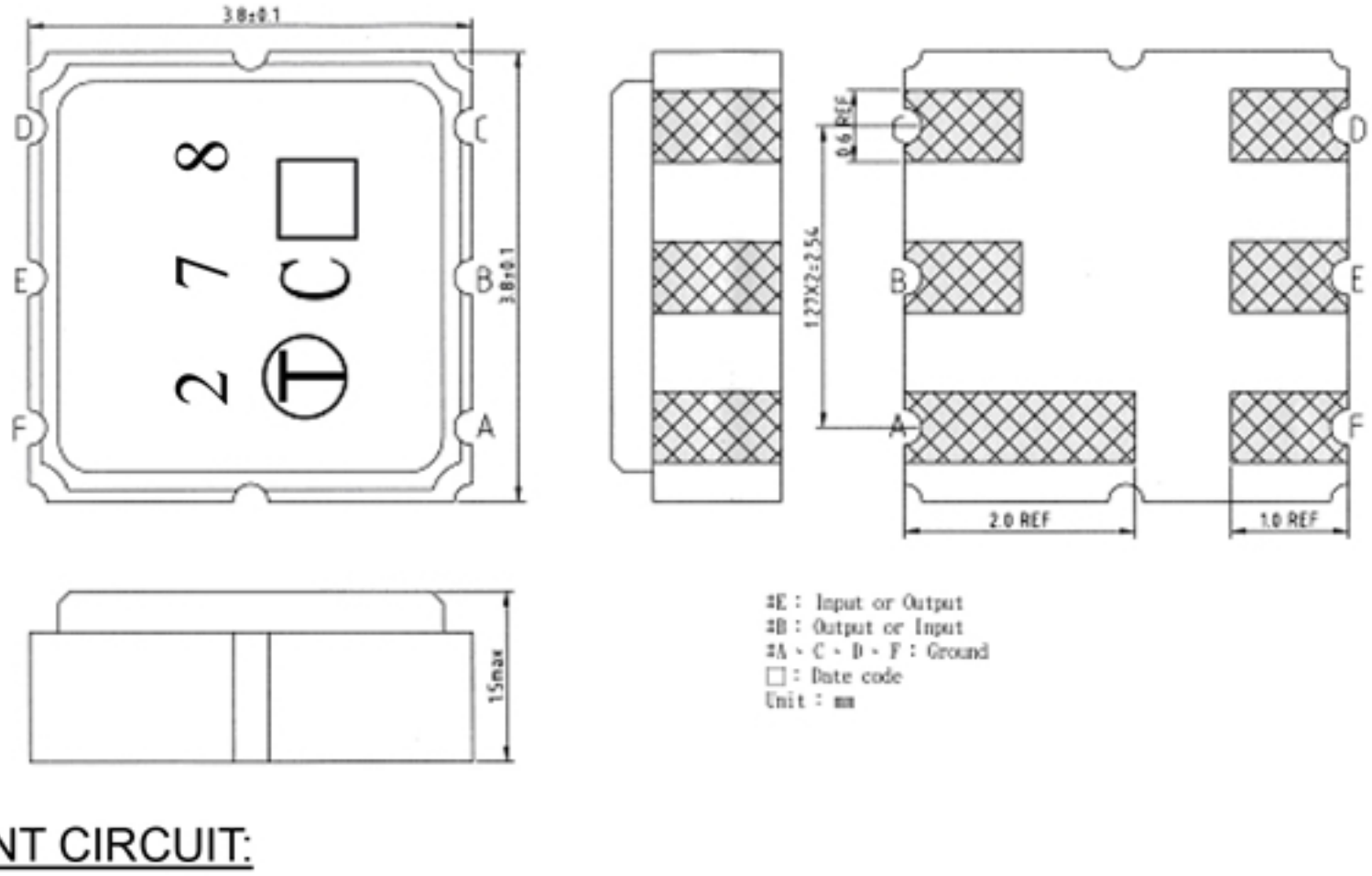
C. ELECTRICAL CHARACTERISTICS:

Reference Temperature T_A=25℃

Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fc**	**MHz**	914.9	915	915.1
Insertion Loss **IL**	**dB**	-	1.1	2.0
Unload quality factor $\mathbf{Q_U}$		5000	6200	-
Ageing of fc	**ppm/yr**	-	-	±10
Motional capacitance **C1**	**fF**	-	1.39	-
Motional inductance **L1**	**μH**	-	21.8	-
Motional resistance **R1**	**Ohm**	-	20.3	-
Parallel capacitance **Co**	**pF**	-	2.6	-
Frequency Temperature coefficient (TC_f)	**ppm/c*2**	-	0.032	-
Turnover To	**deg.C**	10	25	40
Package size	SMD 3.8X3.8X1.4mm			

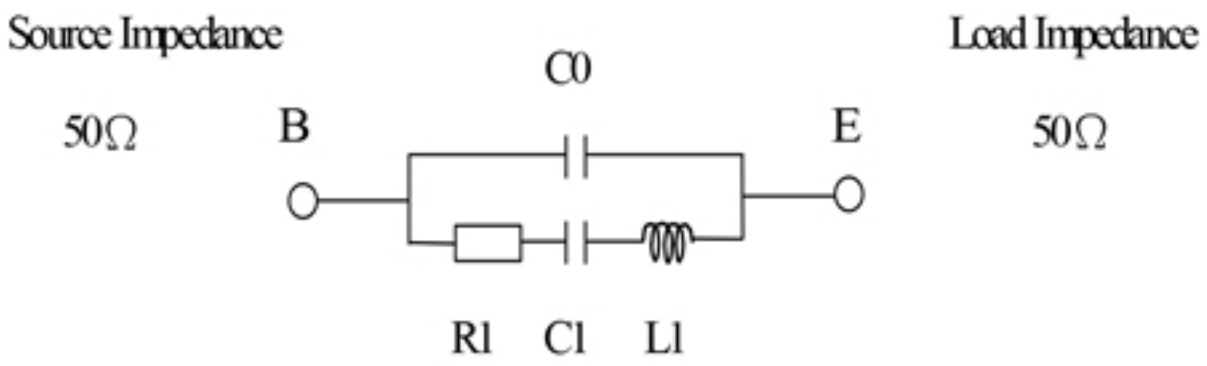
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D.OUTLINE DRAWING:

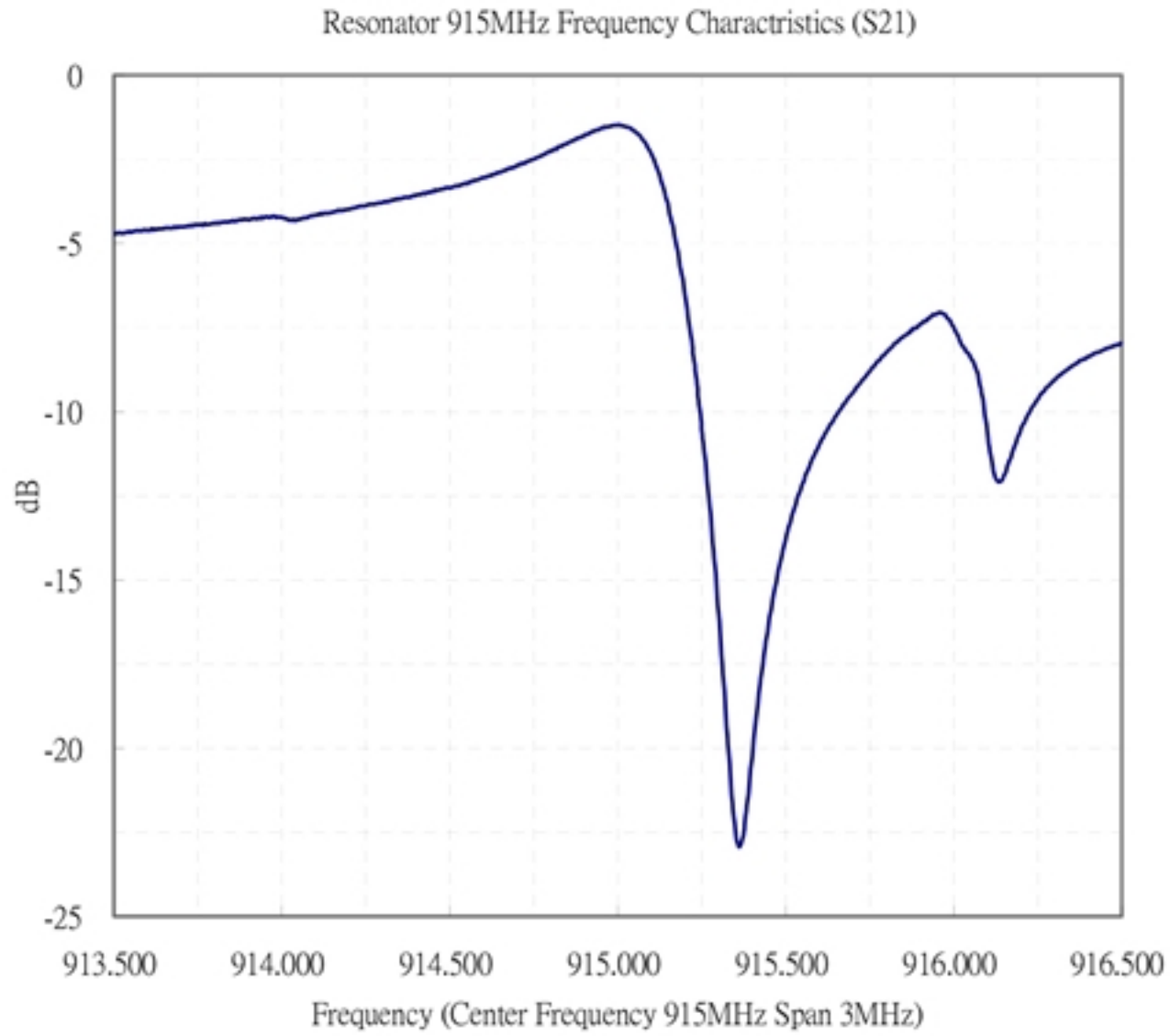


E.EQUVIRENT CIRCUIT:

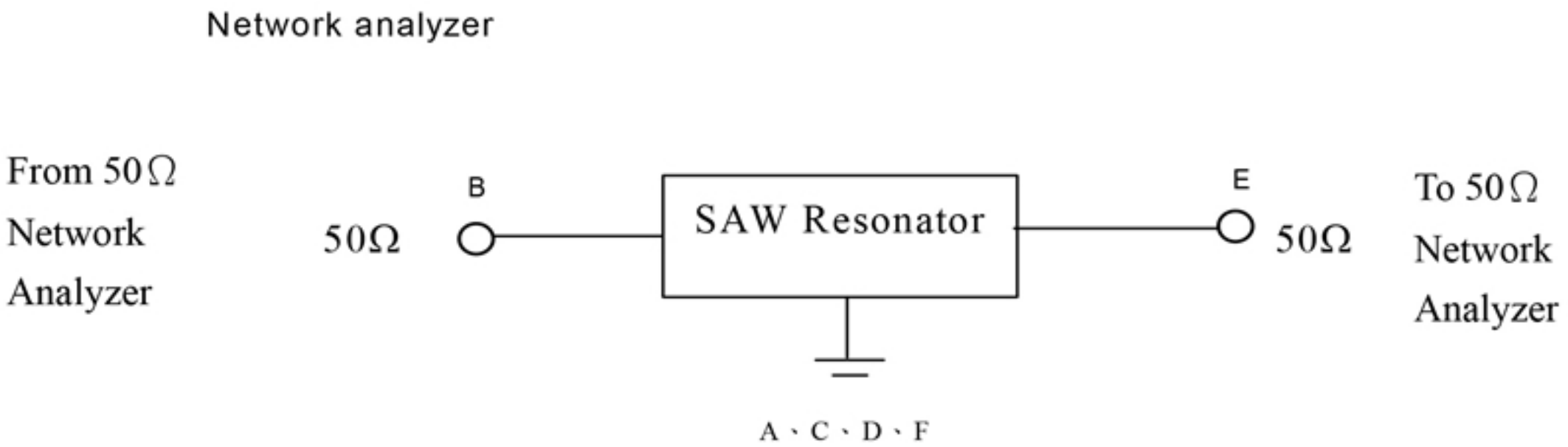
One-Port Resonator:



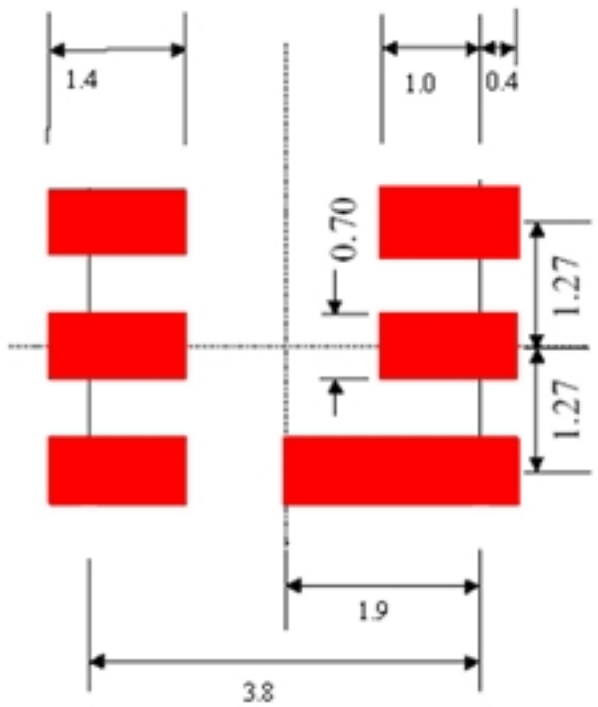
F.FREQUENCY CHARACTERISTICS:



G. TEST CIRCUIT:

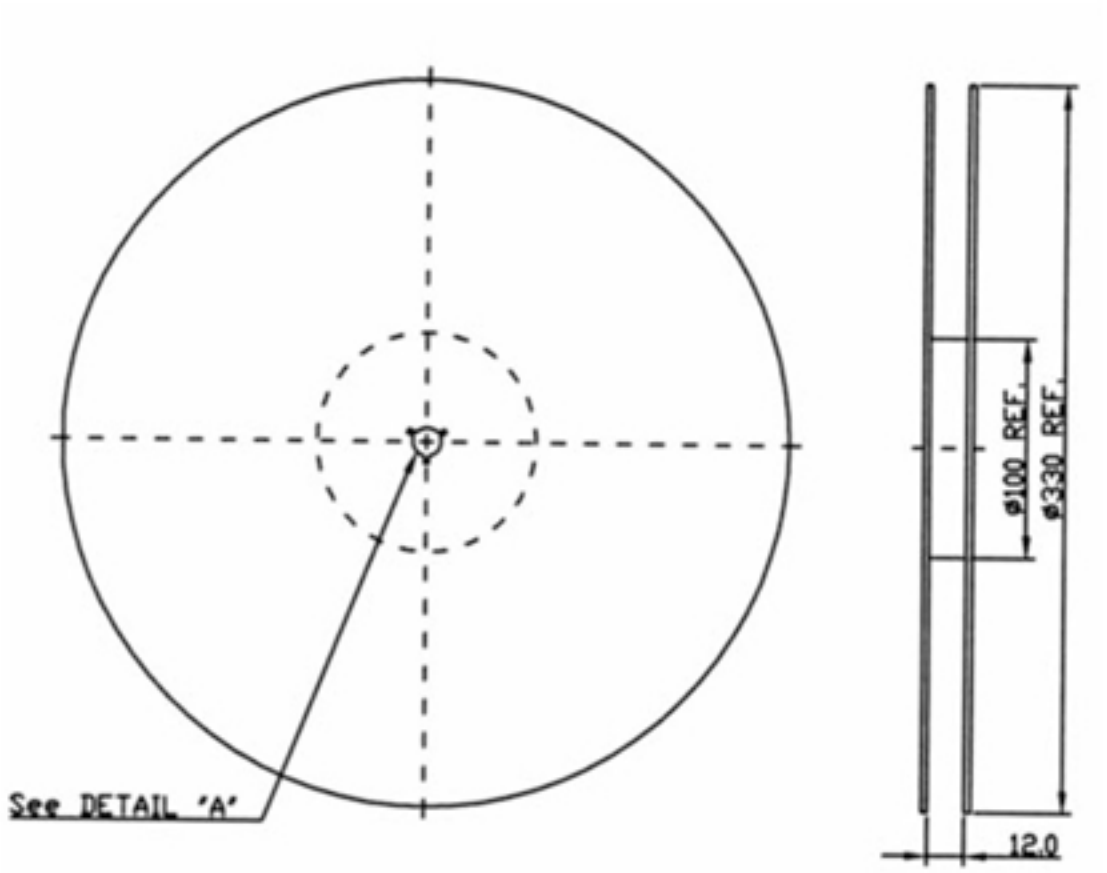


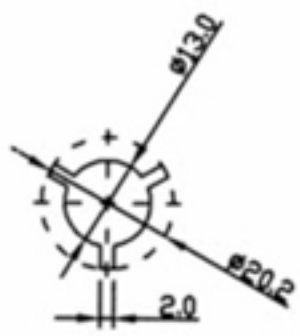
H.PCB FOOTPRINT



I. PACKING:

1.REEL DIMENSION





2.TAPE DIMENSION