SAW Resonator 916.5 MHz

MODEL NO.: TC0391A 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: 12 V

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

4.Storage Temperature: -40°C to +85°C

C. ELECTRICAL CHARACTERISTICS:

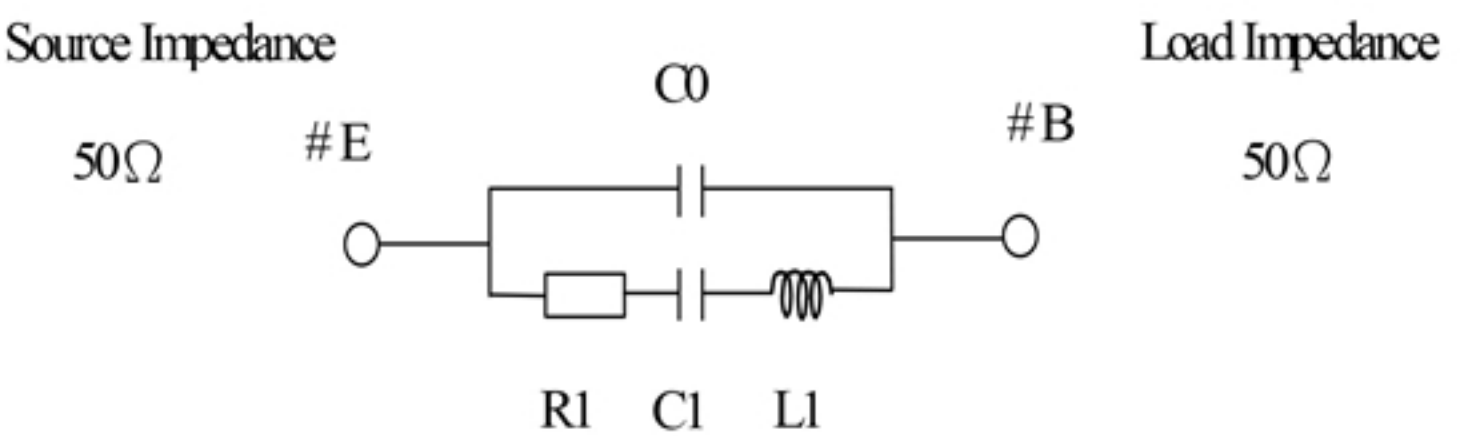
Reference Temperature T_A=25℃

Characteristic	Units	Minimum	Typical	Maximum
Center frequency **Fc**	**MHz**	916.425	916.500	916.575
Insertion Loss **IL**	**dB**	-	1.4	2.2
Unload quality factor **Q_U**		-	9300	-
Ageing of fc	**ppm/yr**	-	-	±10
Motional capacitance **C1**	**fF**	-	1.08	-
Motional inductance **L1**	**μH**	-	27.8	-
Motional resistance **R1**	**Ohm**	-	17.2	-
Parallel capacitance **Co**	**pF**	-	2.3	-
Frequency Temperature coefficient (TC_f)	**ppm/c*2**	-	0.032	-
Turnover To	**deg.C**	10	25	40
Package size		SMD 3X3X1.1 mm		

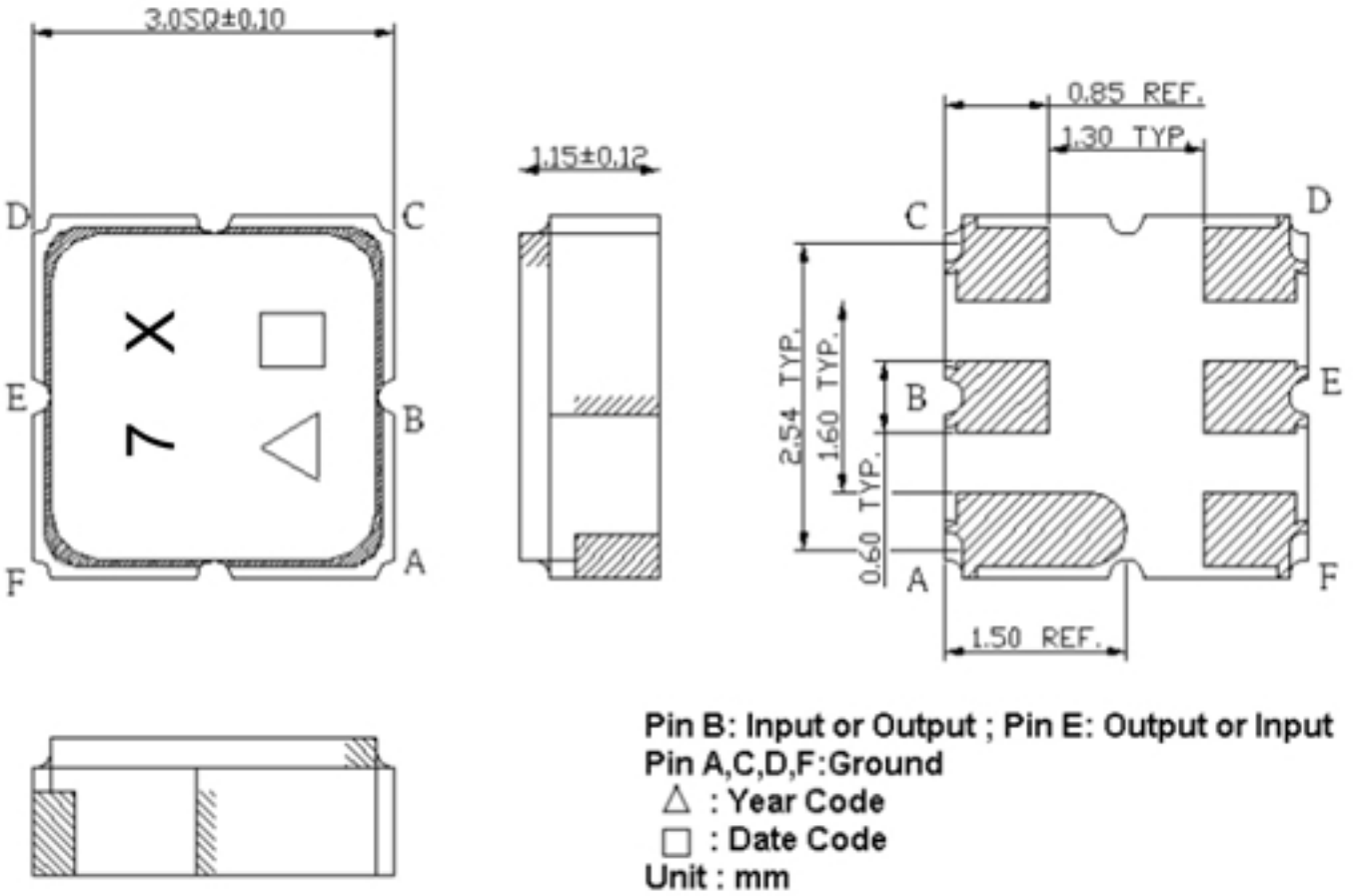
Temperature dependence of fc: $fc(T_A)=fc(T_O)(1+TC_f(T_A-T_O)^2)$

D.EQUVIRENT CIRCUIT:

One-Port Resonator:



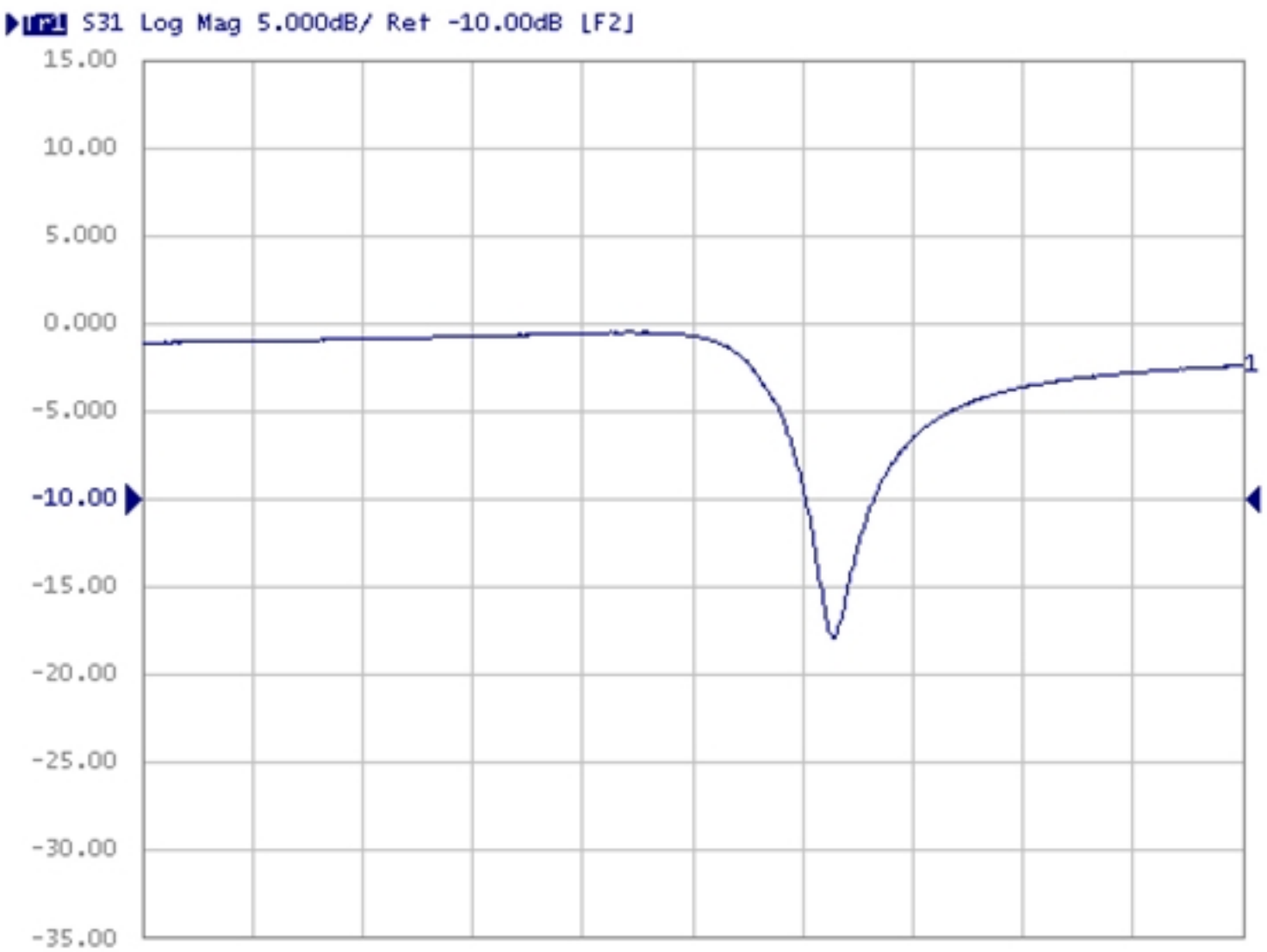
E.OUTLINE DRAWING:



Date code: Provided by planer each year

Year code: 7 for 2007,8 for 2008,…

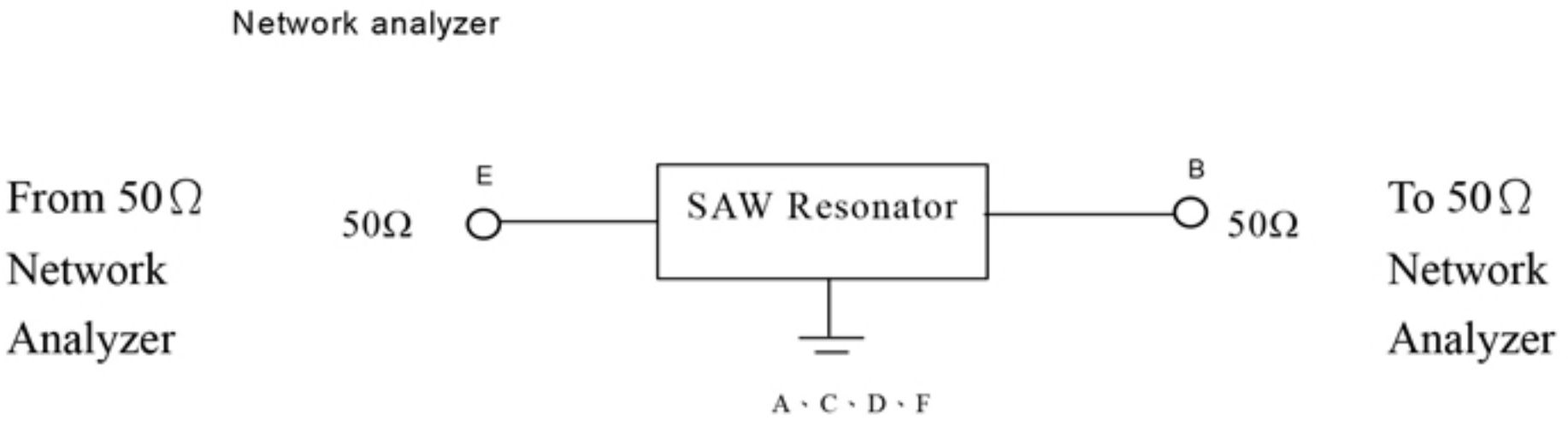
F.FREQUENCY CHARACTERISTICS:



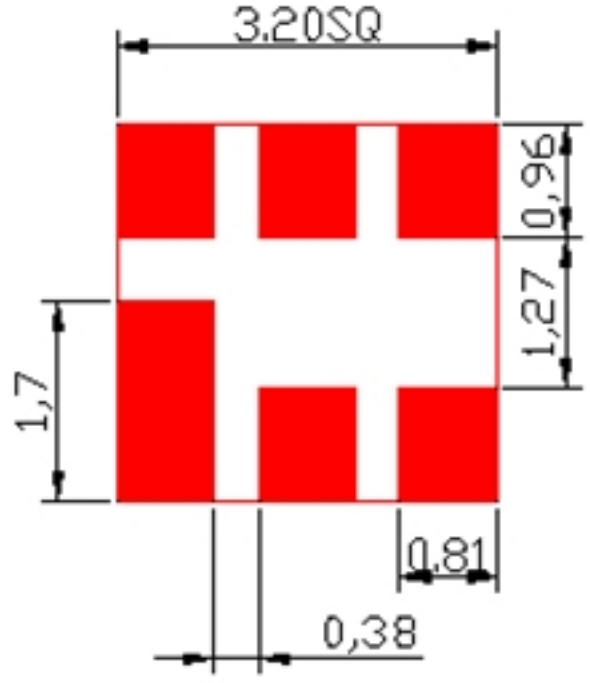
Center Frequency 916.5MHz

Span 2MHz

G. TEST CIRCUIT:

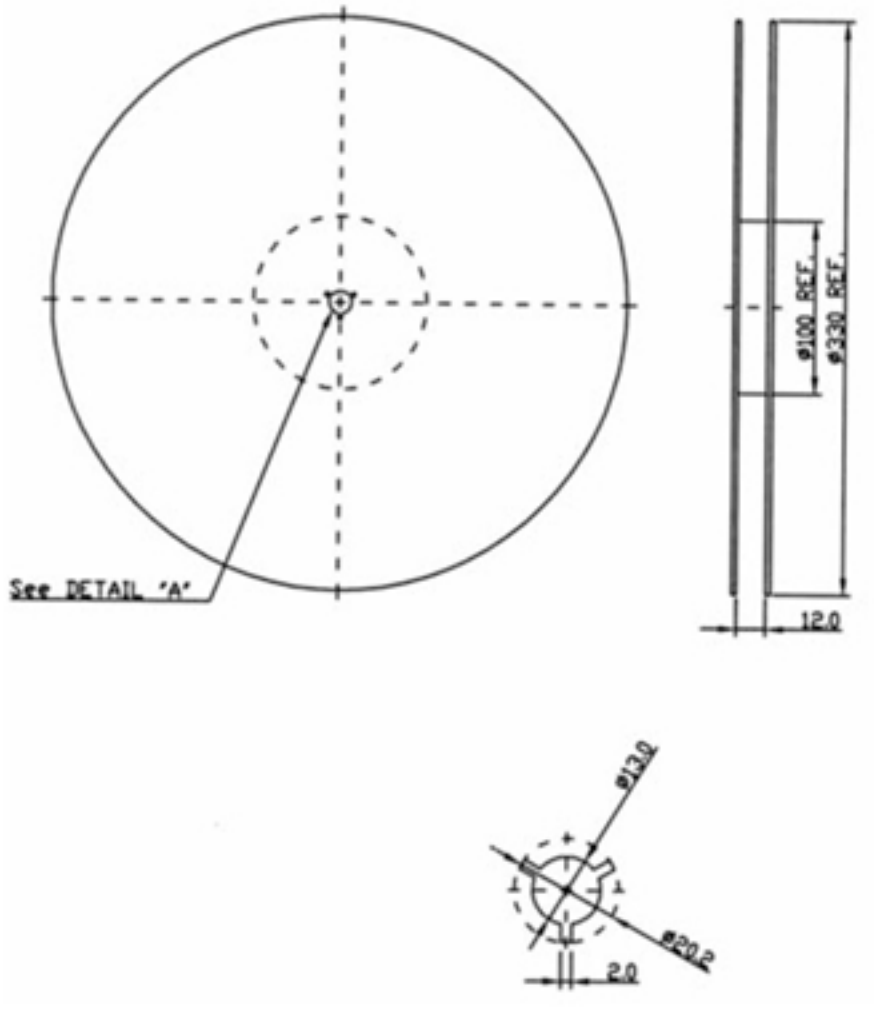


H.PCB Foot Print:

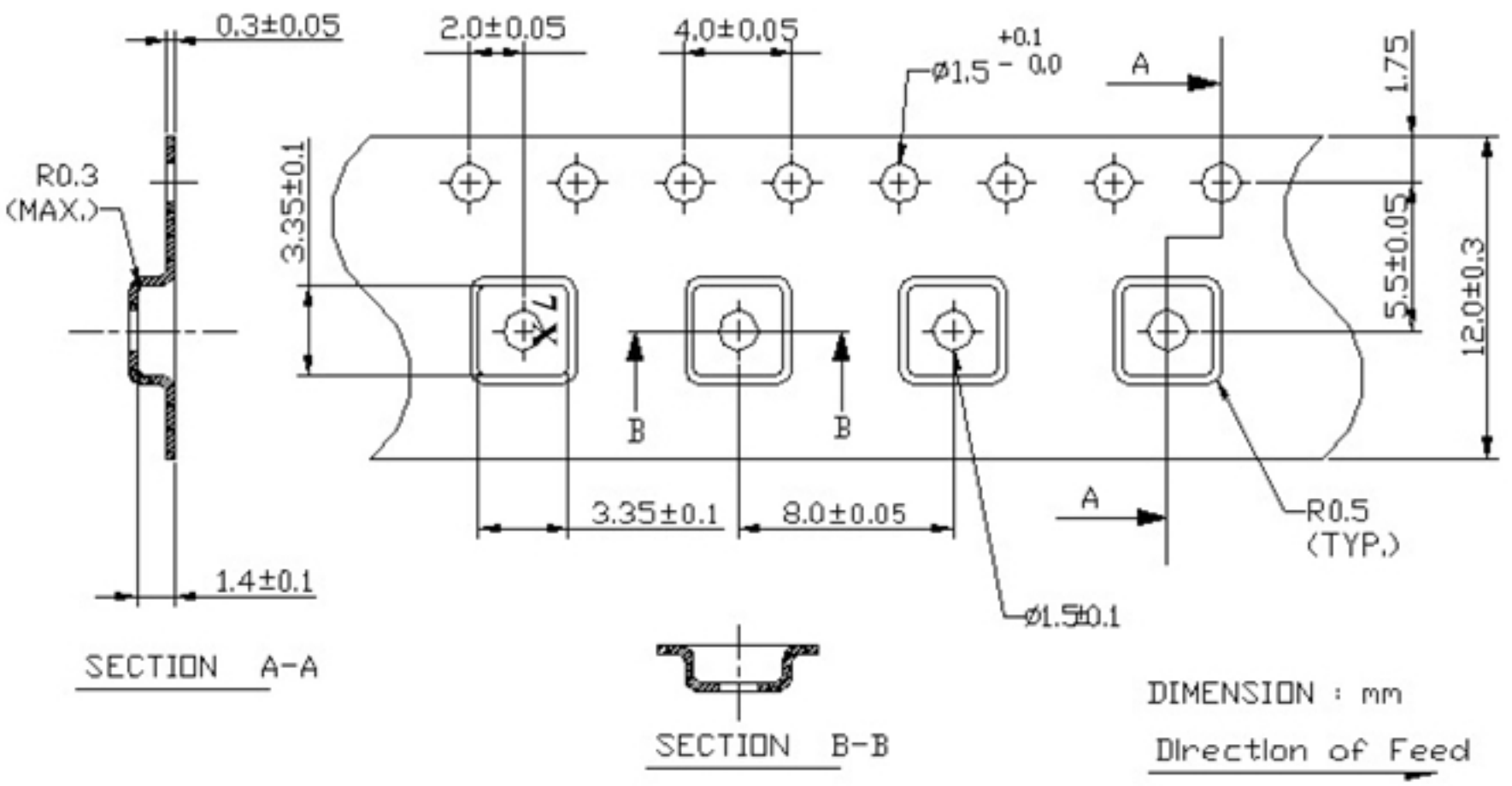


I. PACKING:

1.REEL DIMENSION



2.TAPE DIMENSION



H.RECOMMENDED REFLOW PROFILE: