

SAW Filter: 916.450MHz
Part No: MP06994

Model: TA1727A
Rev No: 2

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 20dBm
2. DC voltage: 5V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

B. ELECTRICAL CHARACTERISTICS:

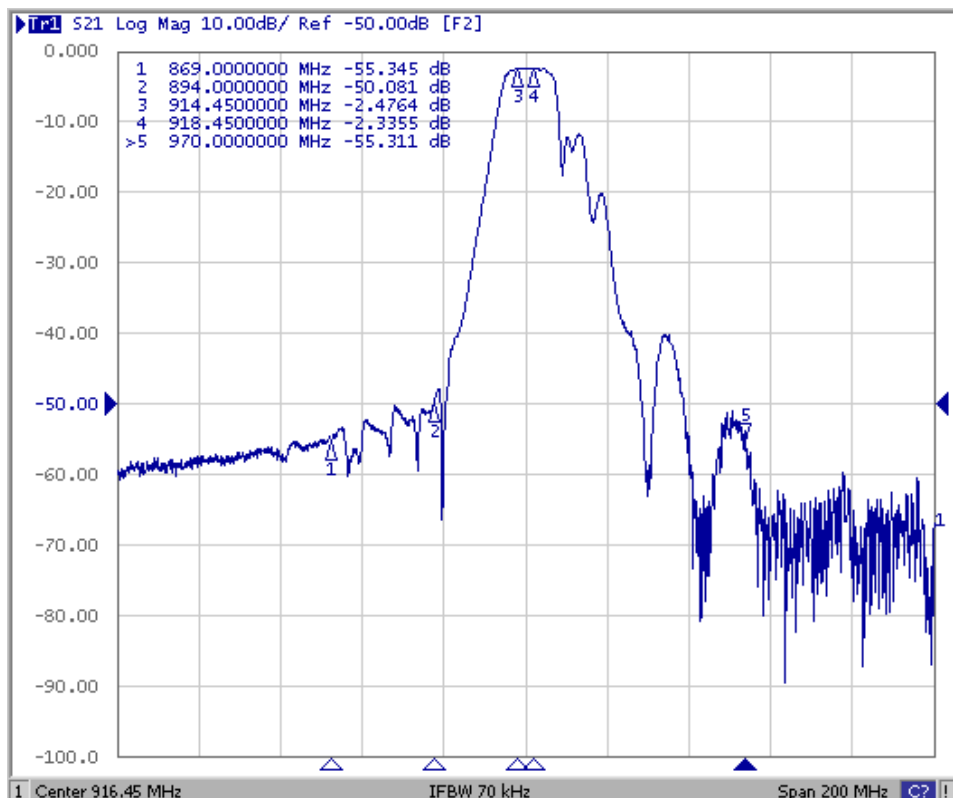
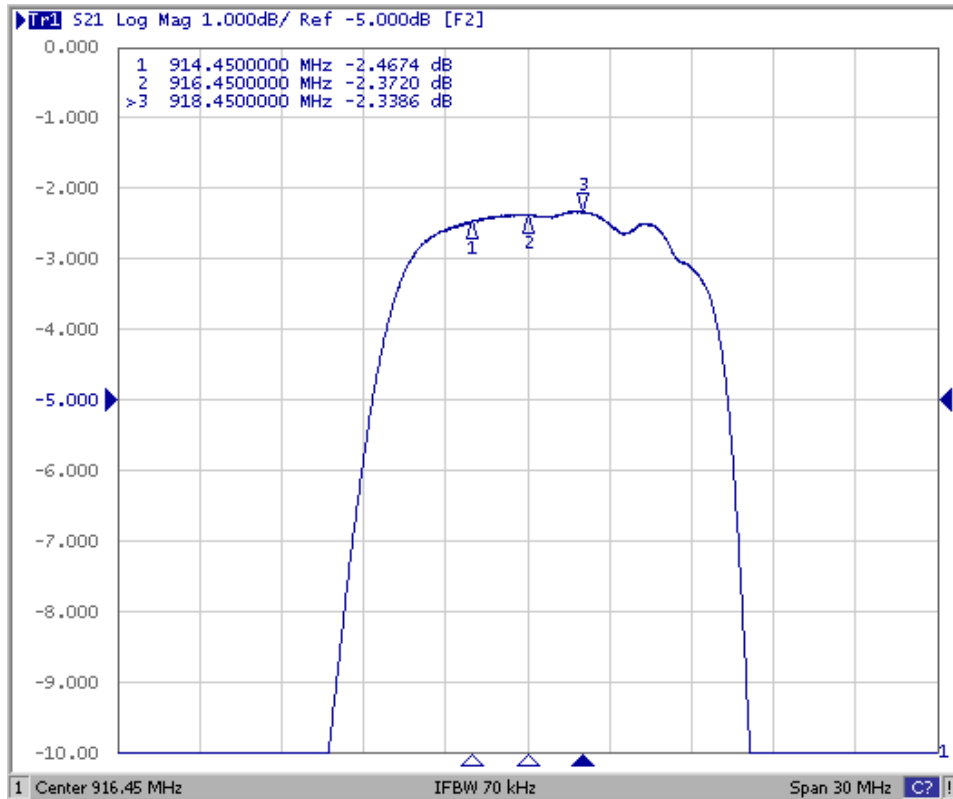
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	916.45	-
Insertion loss 914.45 ~ 918.45MHz IL	dB	-	2.7	3.5
Amplitude ripple 914.45 ~ 918.45MHz	dB	-	0.3	1.0
VSWR 914.45 ~ 918.45MHz	-	-	1.5	2.0
Absolute Attenuation				
D.C. ~ 600MHz	dB	50	57	-
600 ~ 840MHz	dB	40	51	-
869 ~ 894MHz	dB	35	46	-
930 ~ 937MHz	dB	8	13	-
970 ~ 1500MHz	dB	40	47	-
1500 ~ 3000MHz	dB	25	32	-
Source impedance Z _S	Ω	-	50	-
Load impedance Z _L	Ω	-	50	-

Note 1: No matching network required for operation at 50Ω

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C. FREQUENCY CHARACTERISTICS:

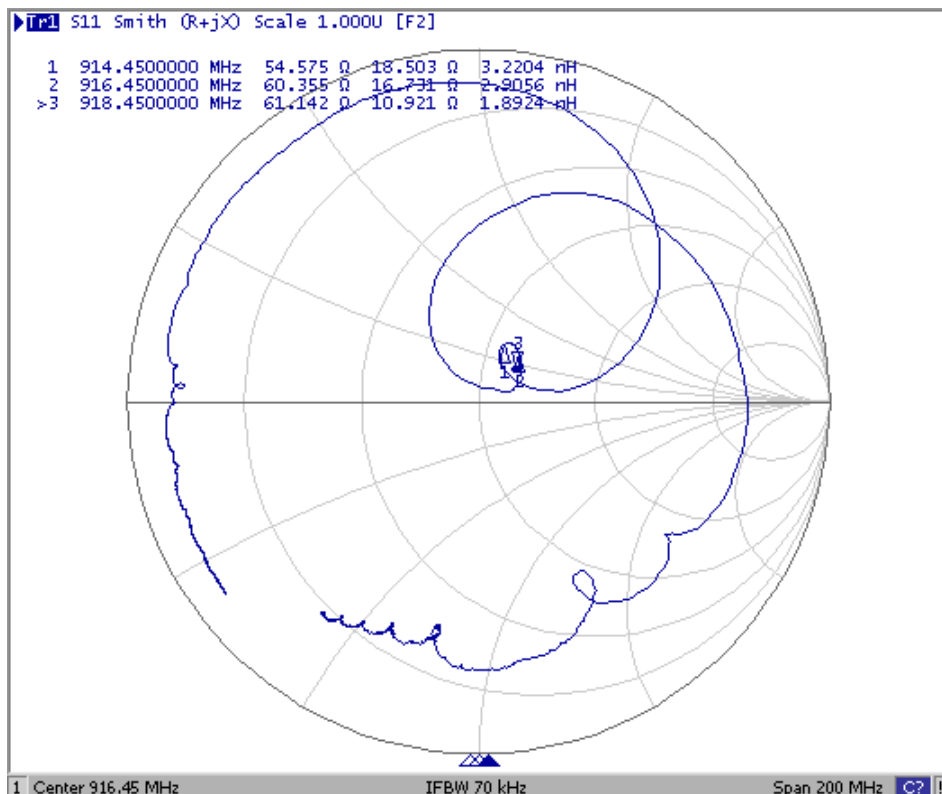
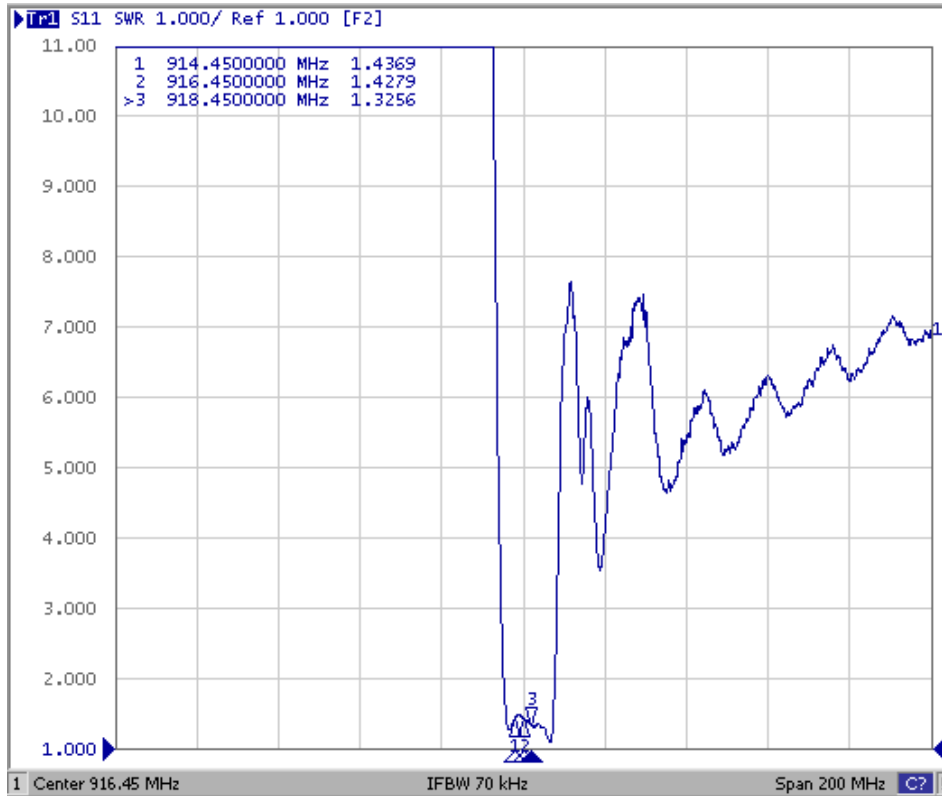


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1. Reflections Functions

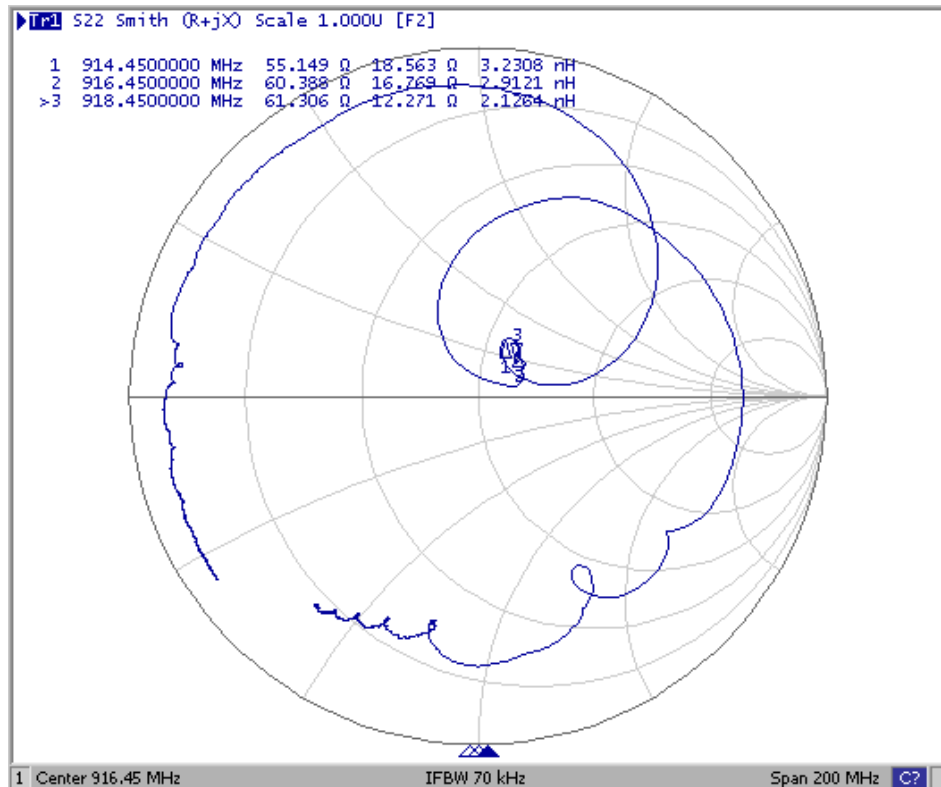
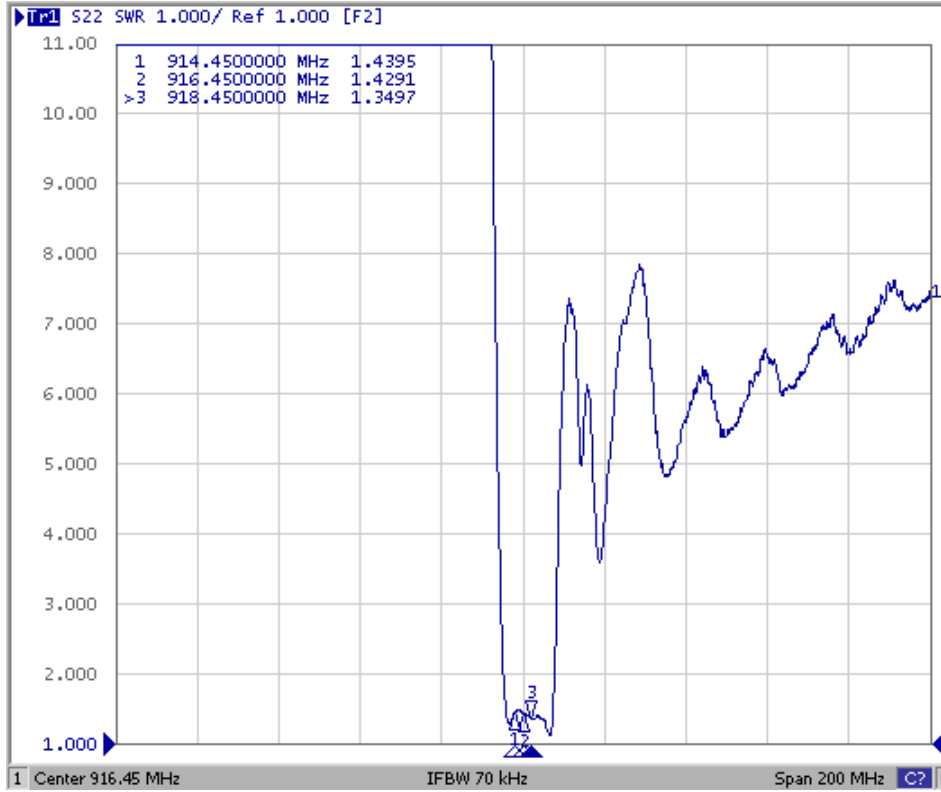
S11



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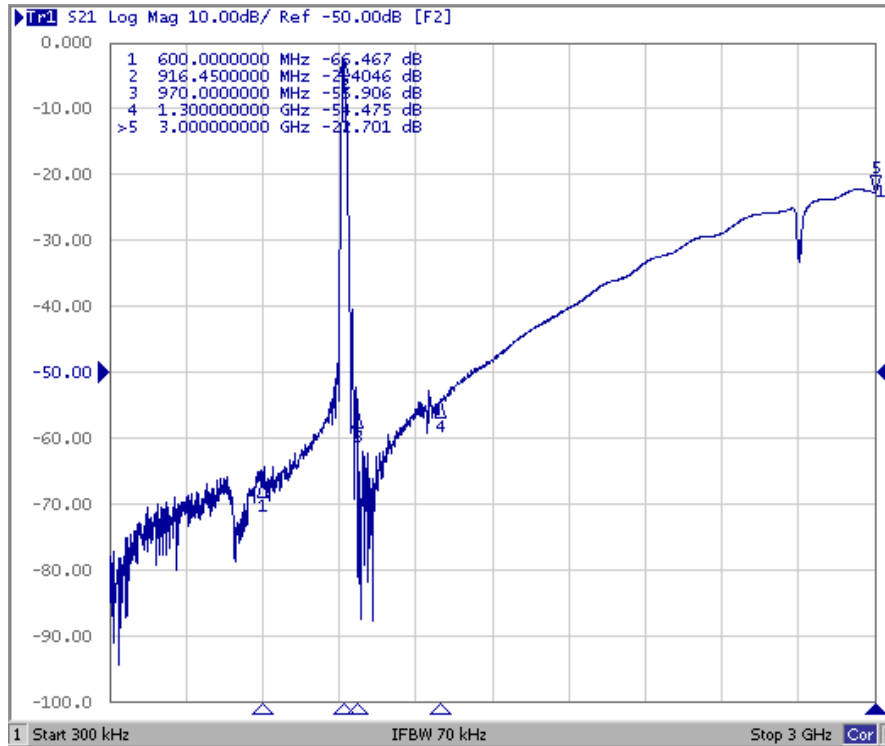
S22



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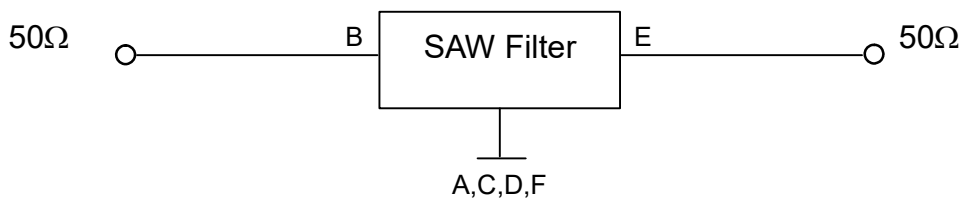
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2. Wideband



D. MEASUREMENT CIRCUIT:

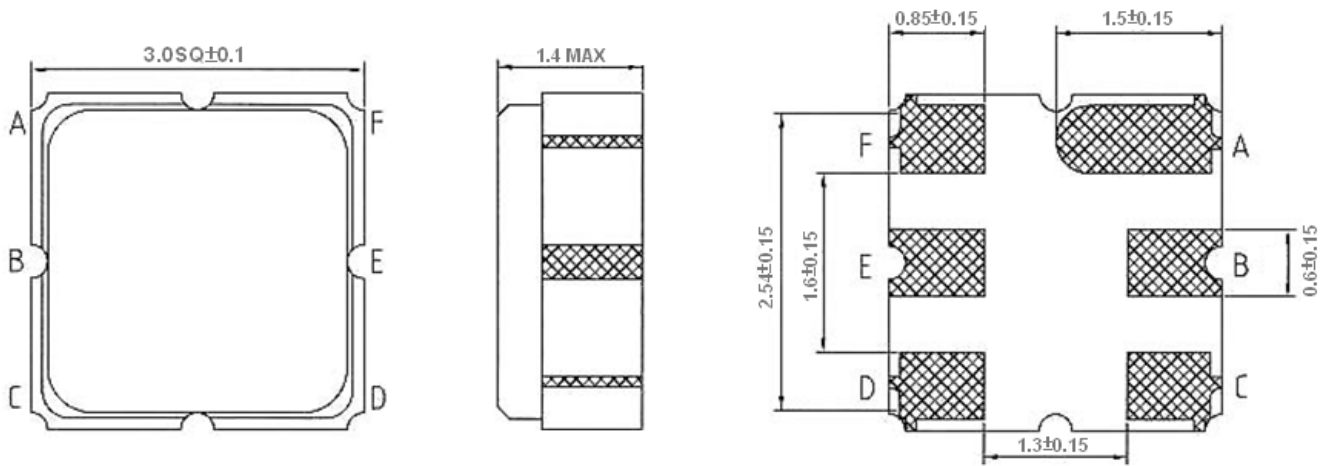
HP Network analyzer



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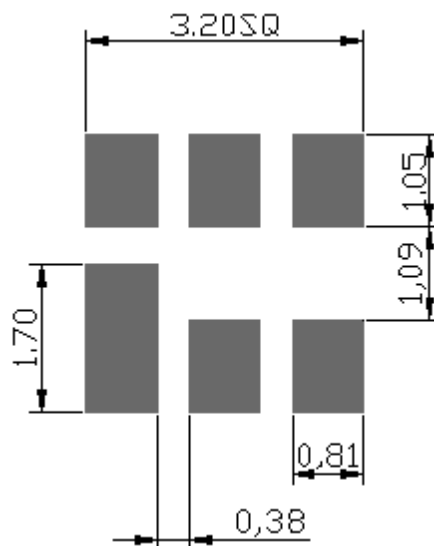
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E. OUTLINE DRAWING:



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

F. PCB FOOTPRINT:

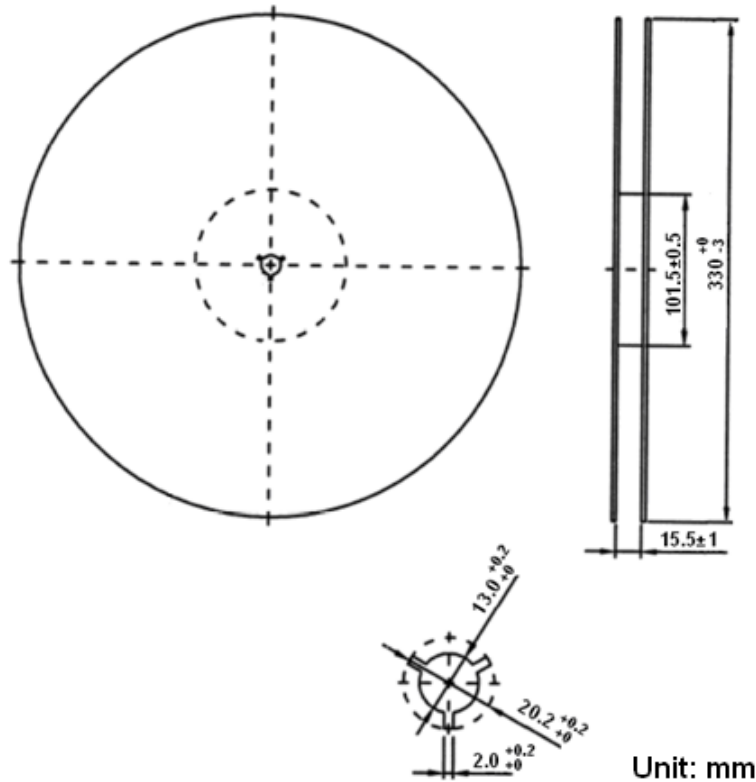


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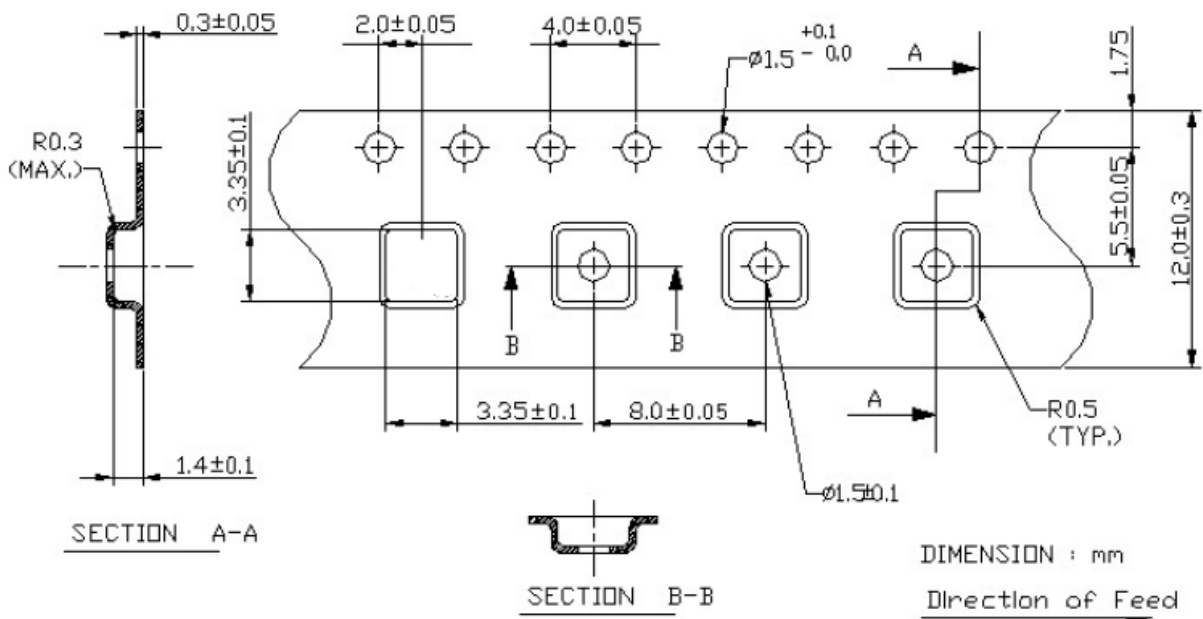
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G. PACKING:

1. Reel Dimensions



2. Tape Dimensions



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H. RECOMMENDED REFLOW PROFILE:

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

