

SAW Filter 836.50MHz
Part No: MA05421

Model: TA0169A
Rev No: 4

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

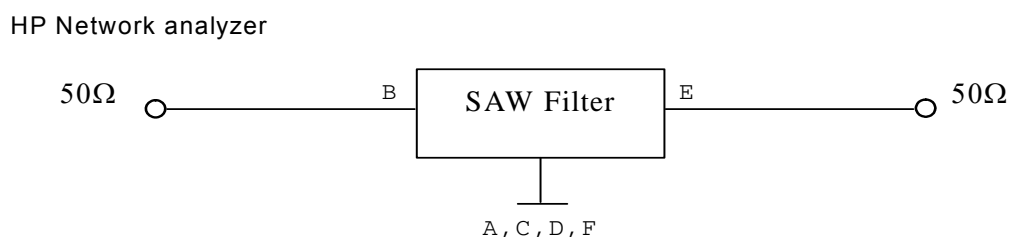
1. Input Power Level: 10dBm
2. DC voltage: 0V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

Item	Min.	Typ.	Max.
Center frequency Fc (dB)	-	836.5	-
Insertion loss within 824 ~ 849MHz IL (dB)	-	2.1	3.0
Amplitude ripple (p-p) within 824 ~ 849MHz (dB)	-	1.2	2.0
Attenuation (Reference level from 0dB)			
D.C. ~ 800MHz (dB)	23.0	26.0	-
869 ~ 894MHz (dB)	29.0	32.0	-
978 ~ 1006MHz (dB)	25.0	28.0	-
1050 ~ 2500MHz (dB)	15.0	18.0	-
VSWR within 824 ~ 849MHz	-	1.8	2.3
Source impedance Z _S (Ω)	-	50	-
Load impedance Z _L (Ω)	-	50	-

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

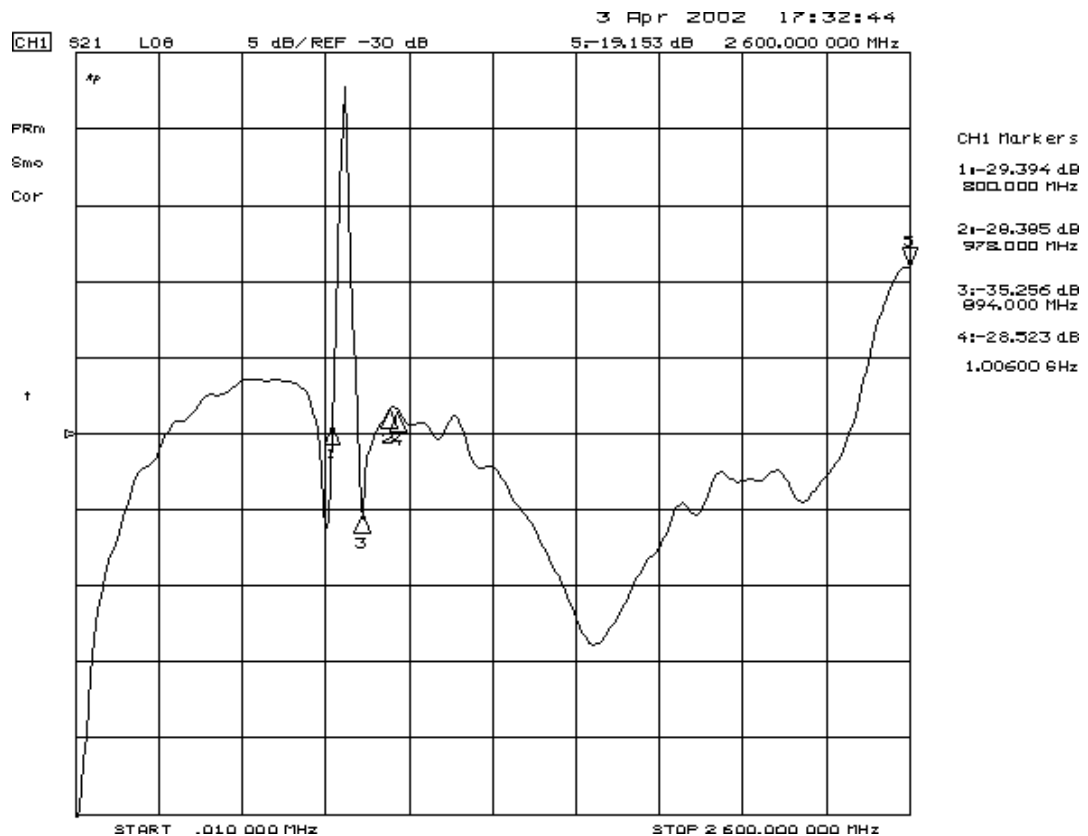
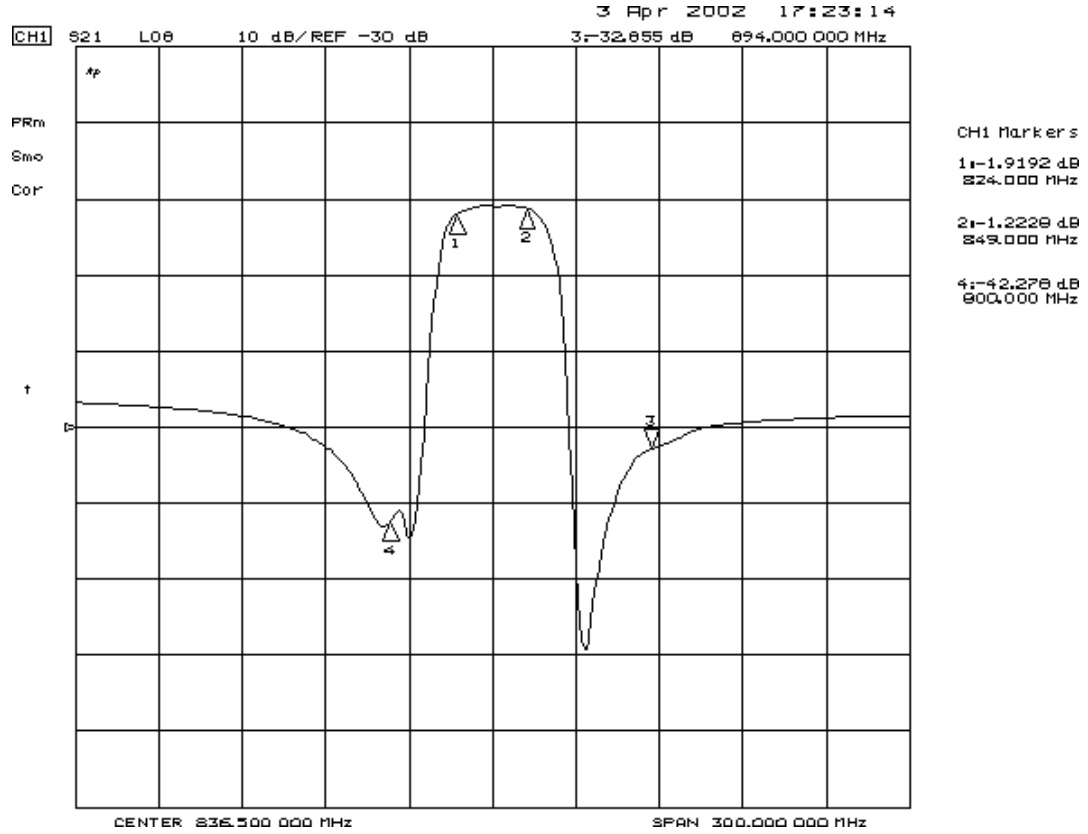
C. MEASUREMENT CIRCUIT:



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D. FREQUENCY CHARACTERISTICS:

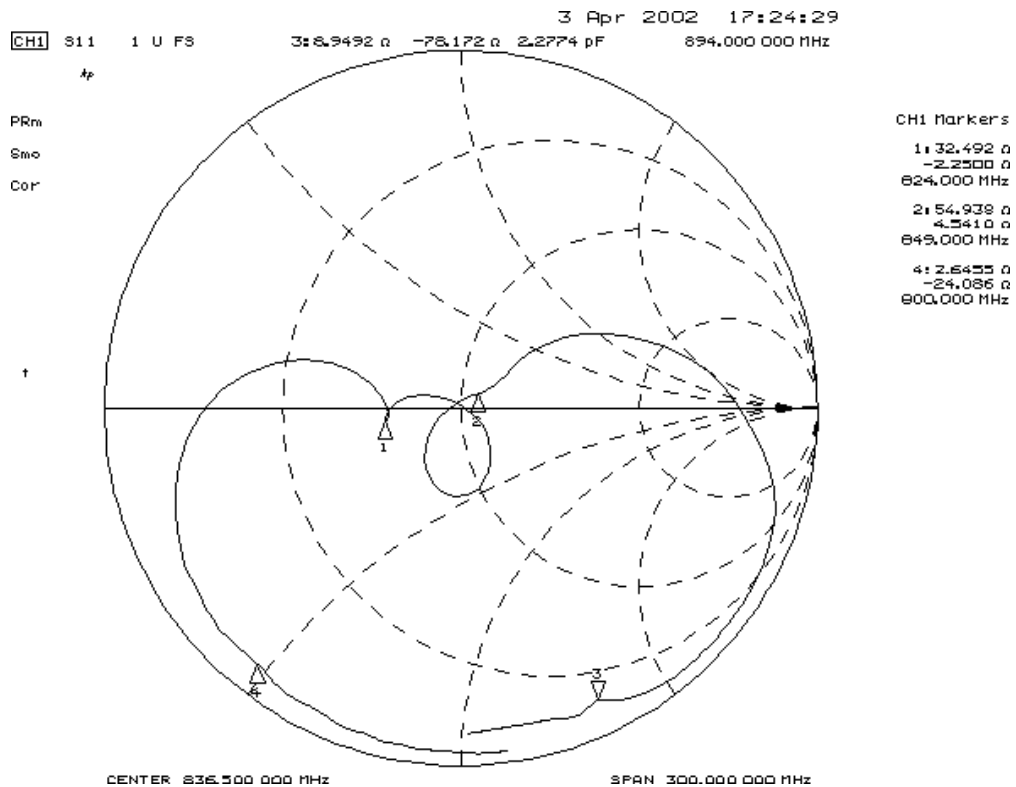
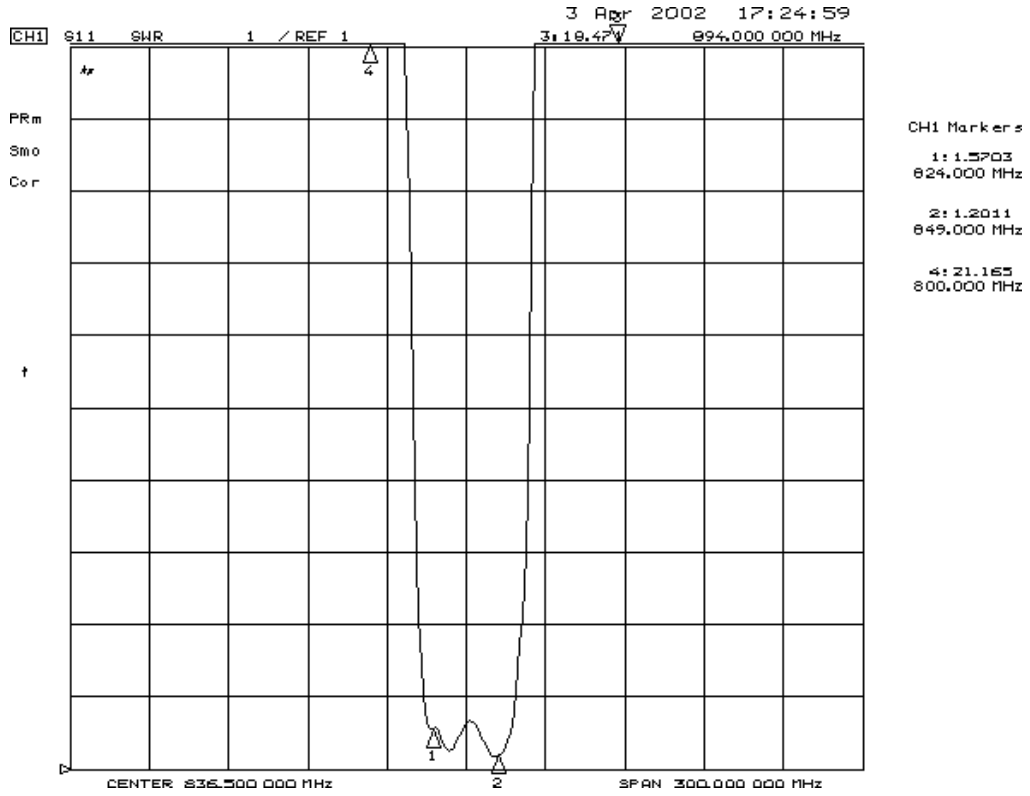


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Reflections Functions

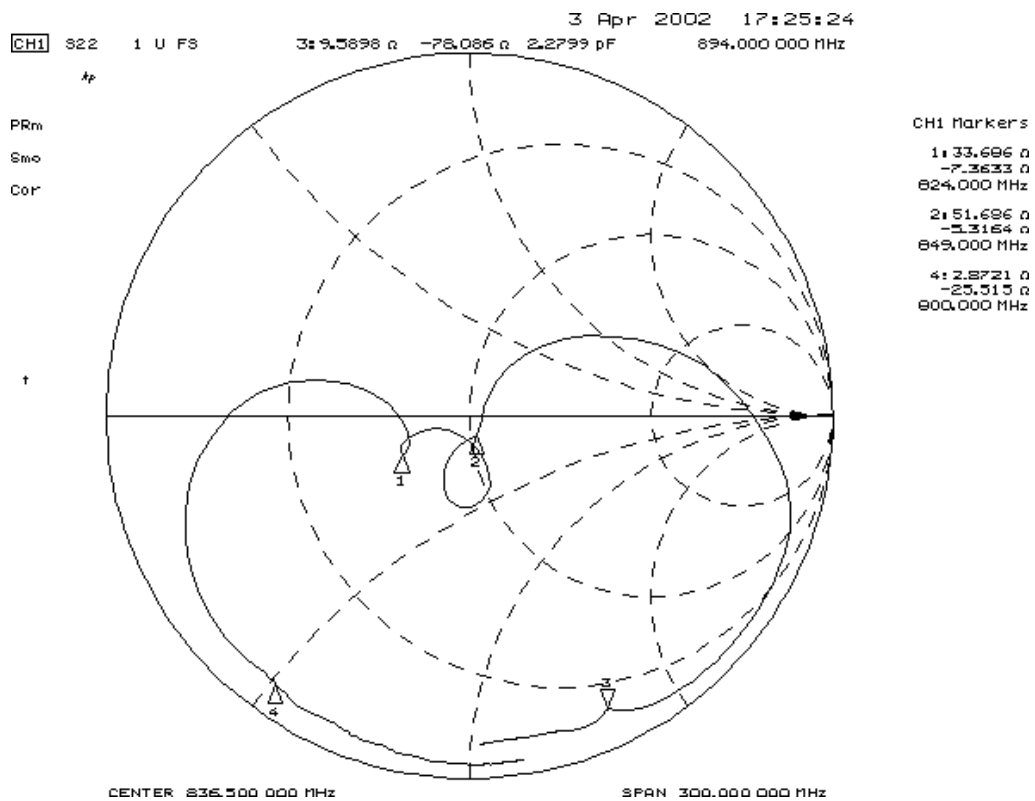
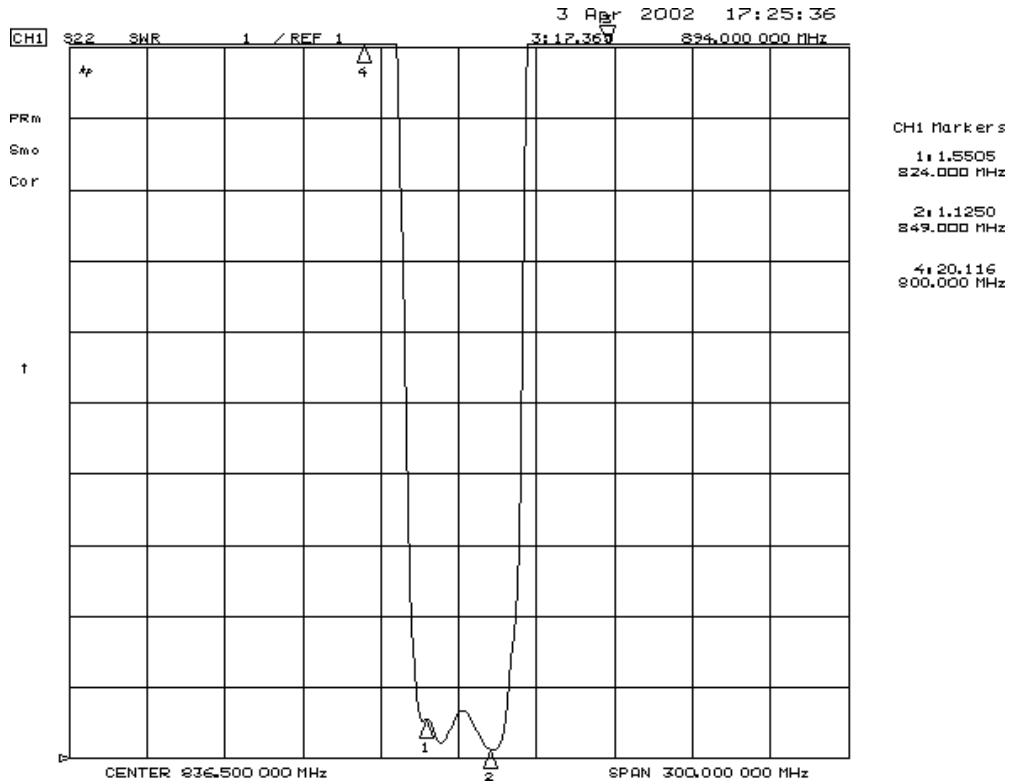
S11



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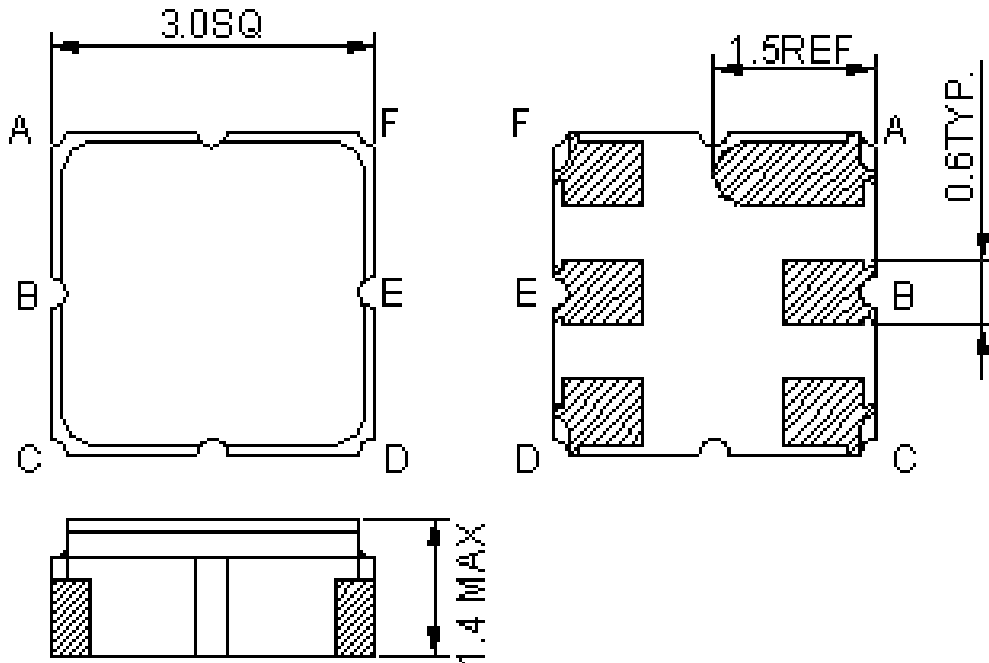
S22



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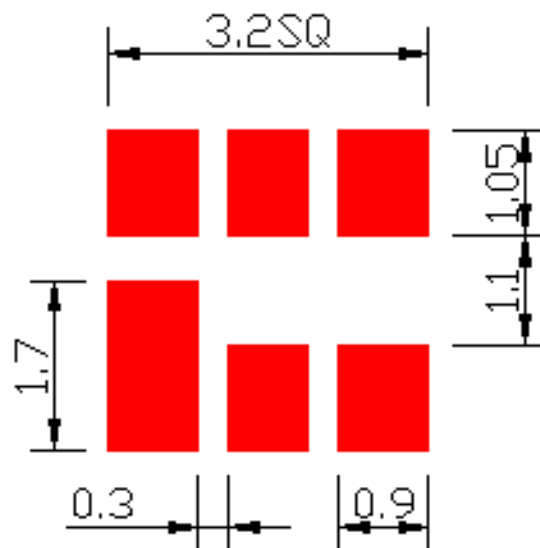
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E. OUTLINE DRAWING:



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

F. PCB FOOTPATH:

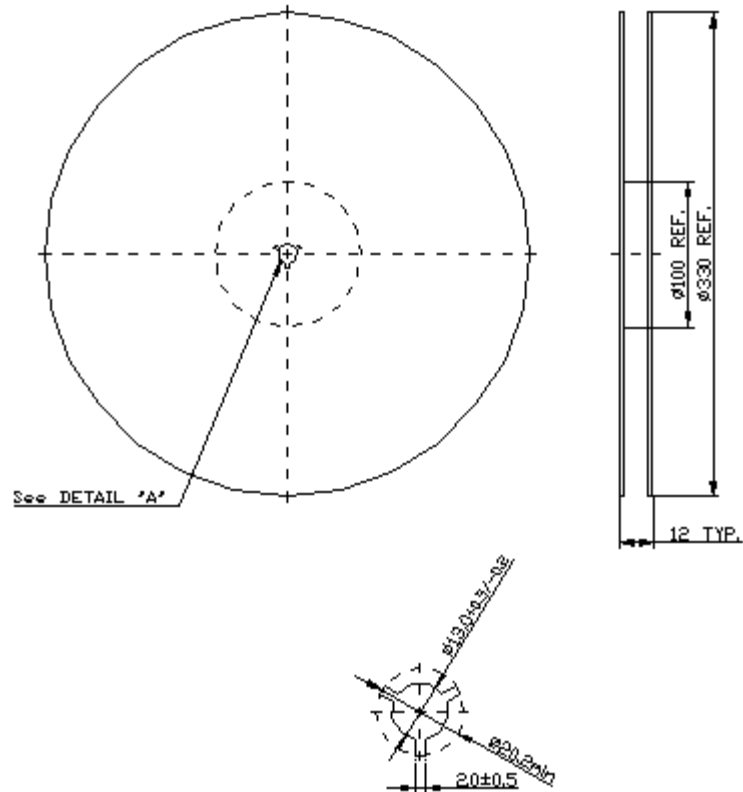


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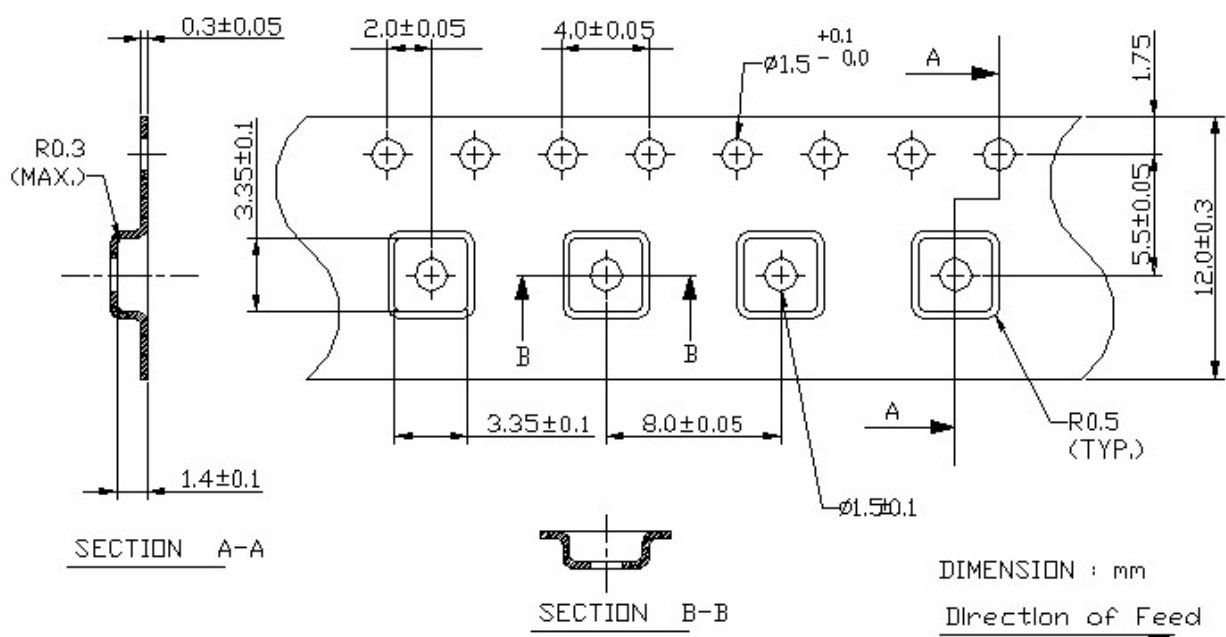
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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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 245 ~ 260°C peak (min. 10 sec).
4. Time: 2 times.

