

**SAW Filter 916.450MHz**  
**Part No: MA07630**

**Model: TA0344A**  
**Rev No: 3**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 17dBm
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)

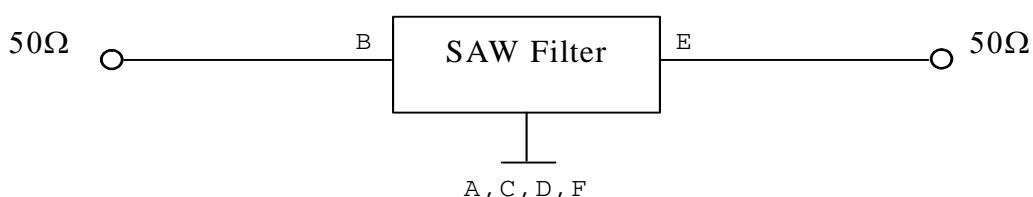
**B. ELECTRICAL CHARACTERISTICS:**

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	-
970 ~ 1500MHz	dB	40	47	-
1500 ~ 3000MHz	dB	25	32	-
Source impedance Z <sub>S</sub>	Ω	-	50	-
Load impedance Z <sub>L</sub>	Ω	-	50	-

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

**C. MEASUREMENT CIRCUIT:**

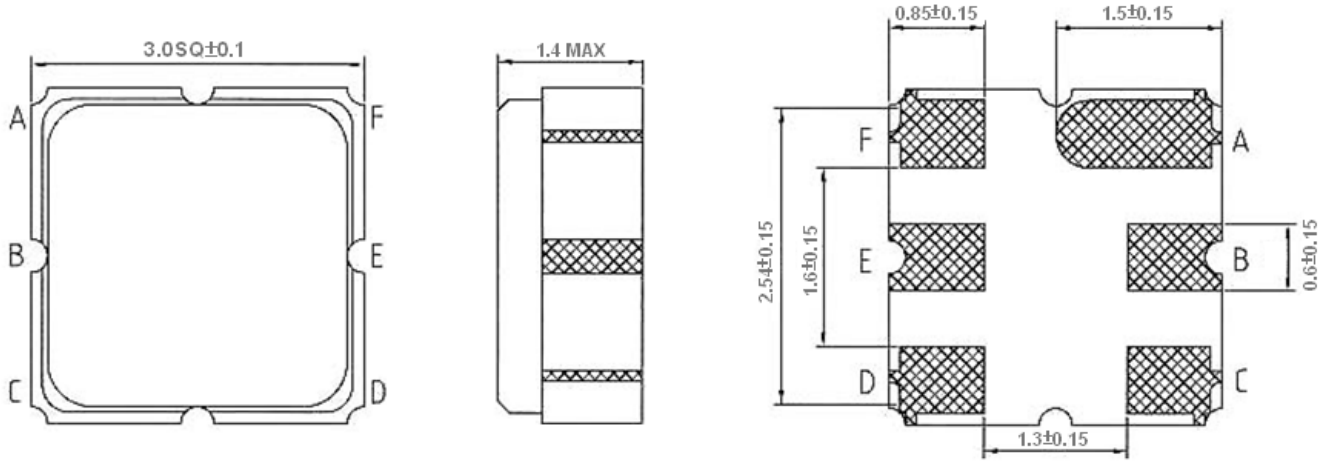
HP Network analyzer



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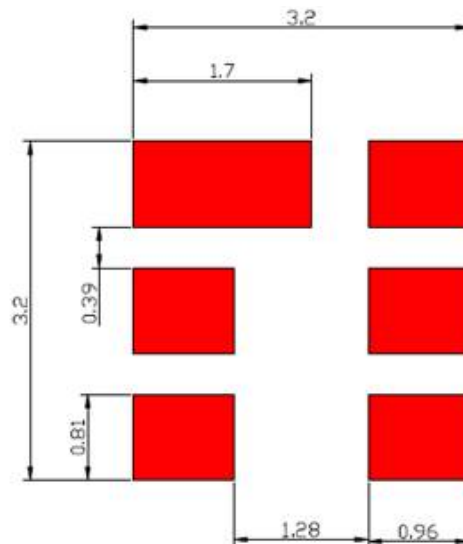
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**D. OUTLINE DRAWING:**



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

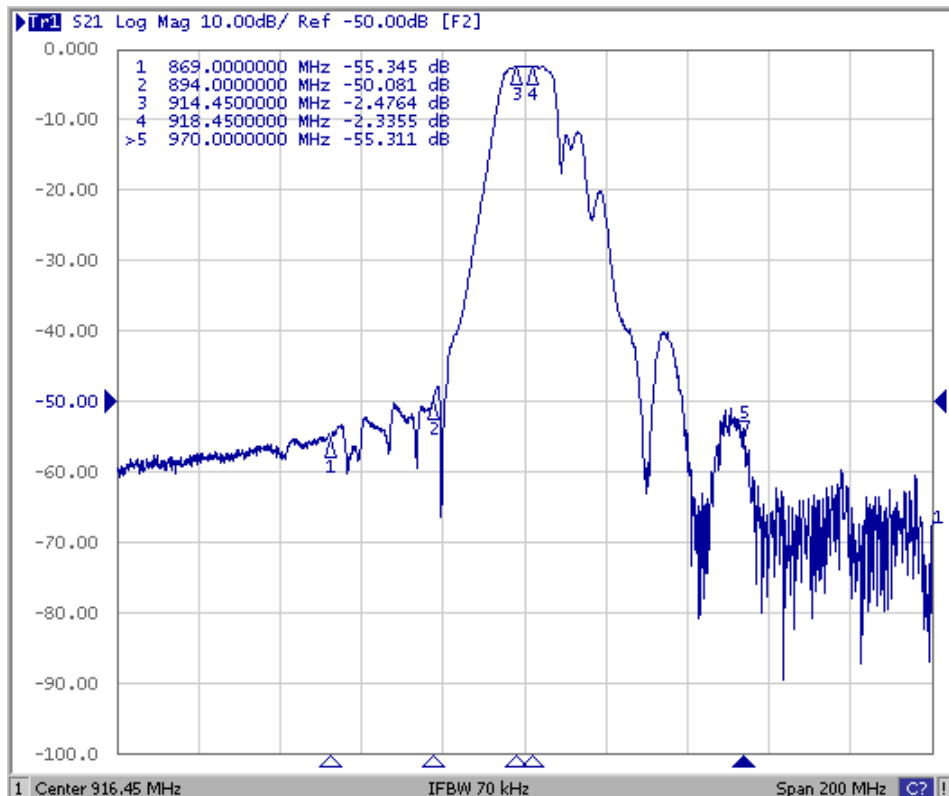
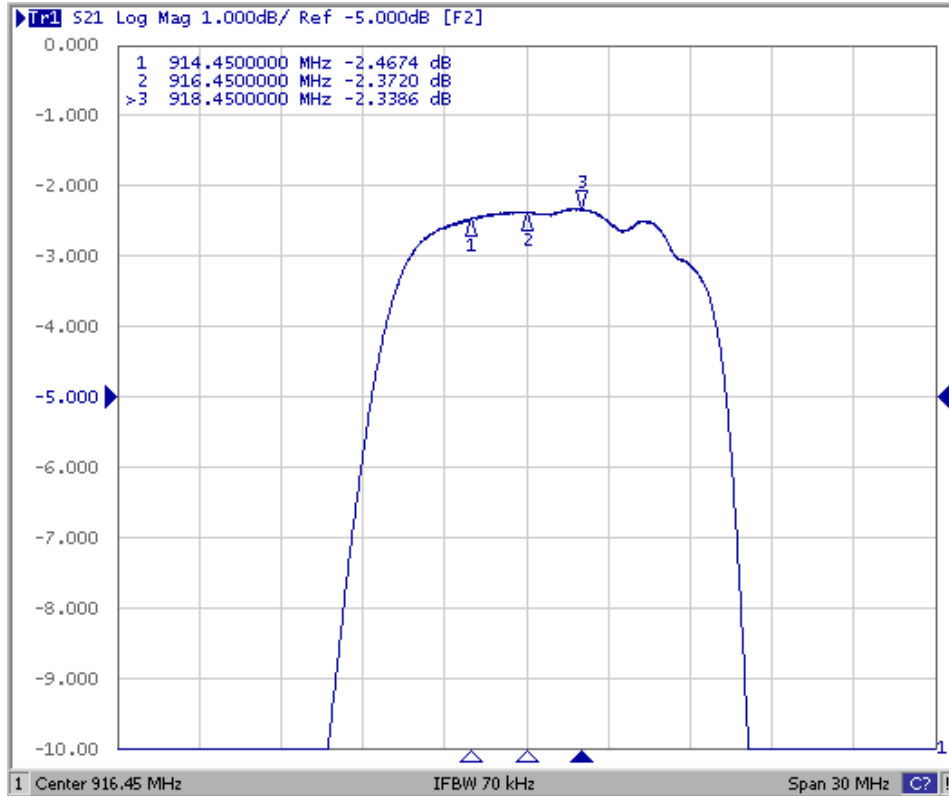
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

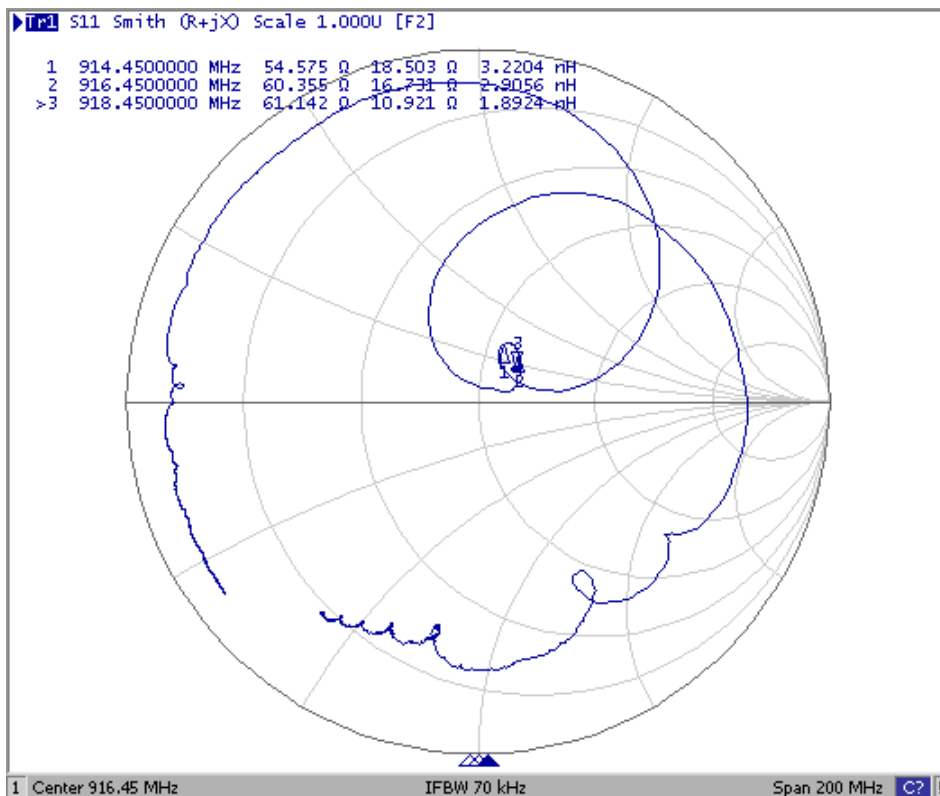
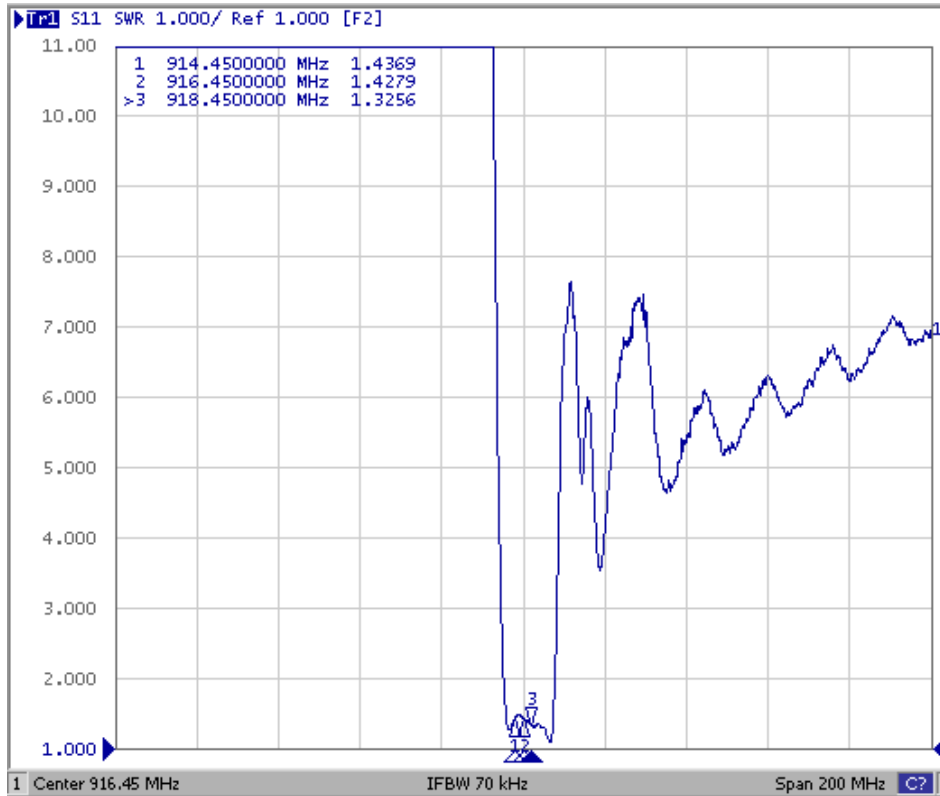


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Reflections Functions

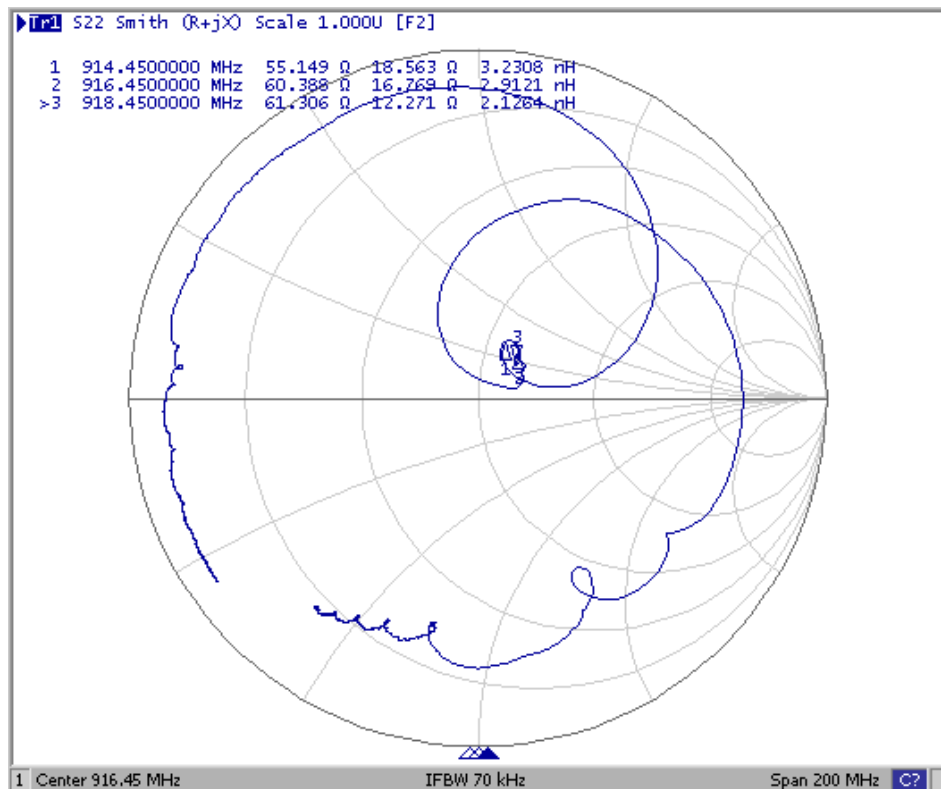
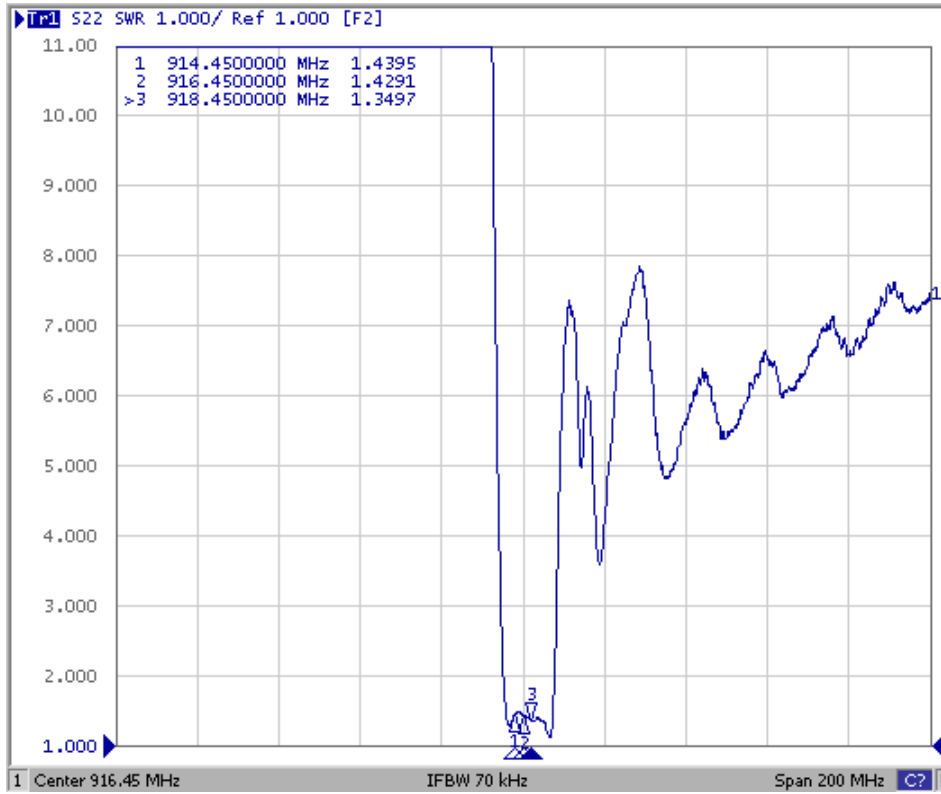
S11



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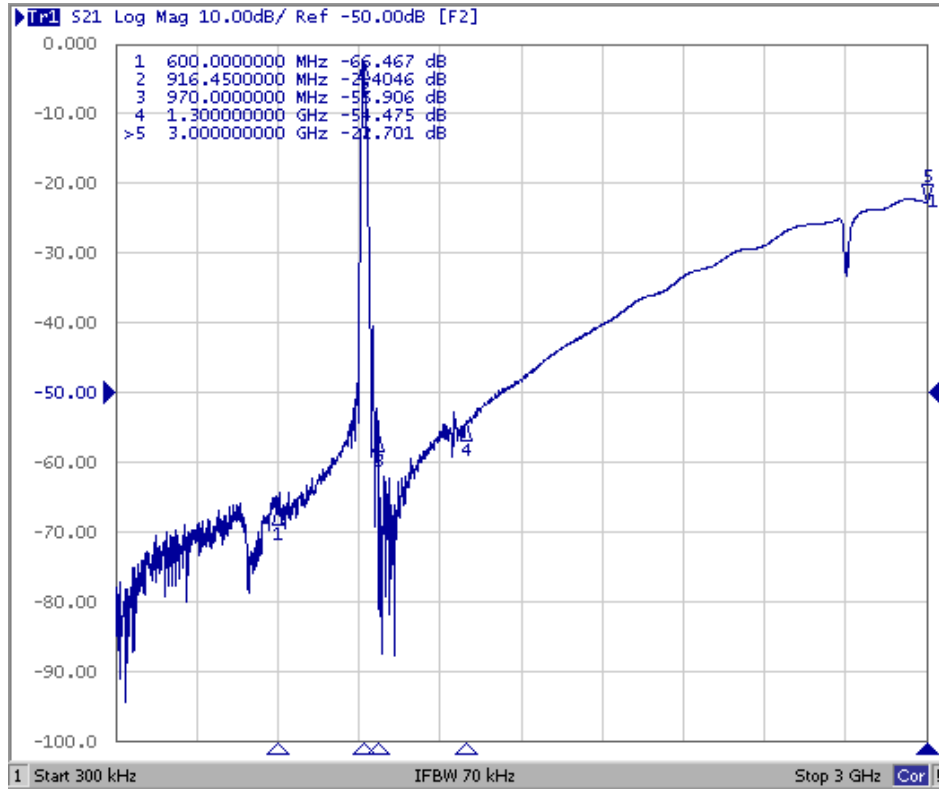
S22



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Wideband

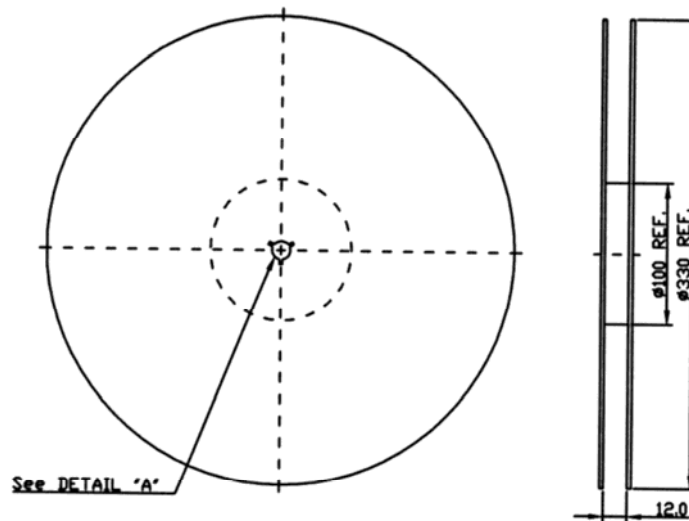


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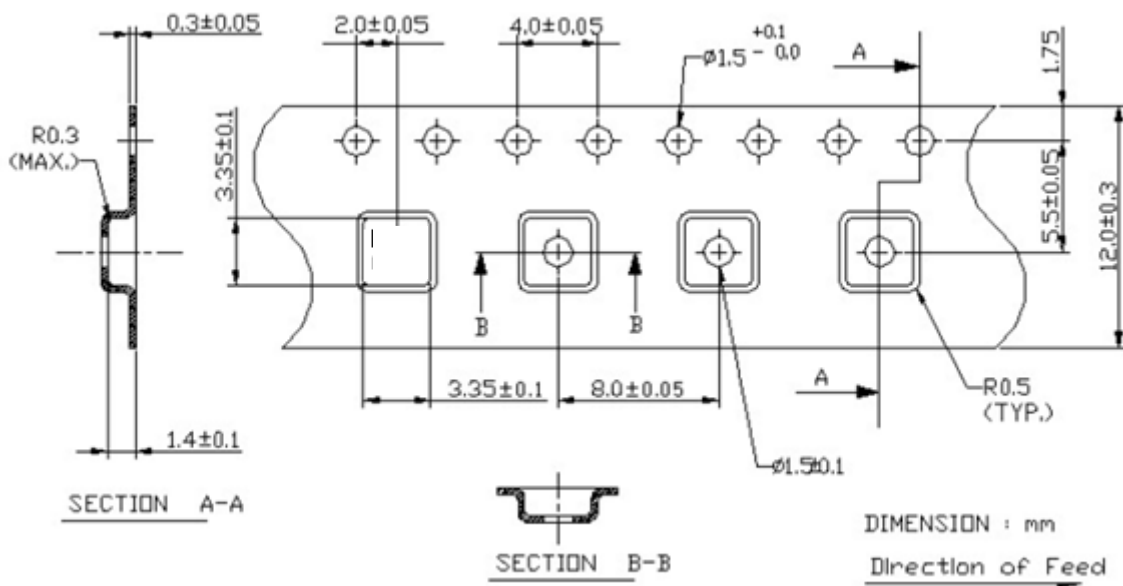
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**G. PACKING:**

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 260°C +0/-5°C peak (20 ~ 40 sec).
4. Time: 2 times.

