

**SAW Filter 428.0MHz**  
**Part No: MP07541**

**Model: TA1589A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

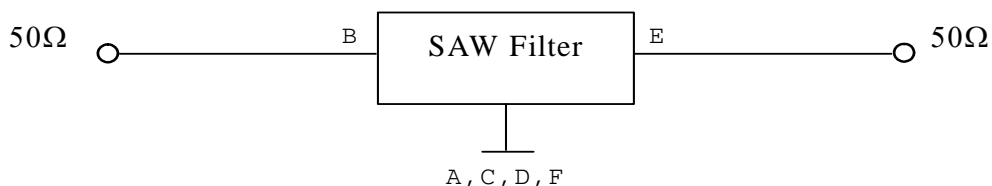
1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	428	-
Insertion Loss (426 ~ 430MHz) IL	dB	-	1.8	3.5
Amplitude Ripple (426 ~ 430MHz)	dB	-	0.2	1.8
VSWR (426 ~ 430MHz)	-	-	1.3	2.4
Attenuation (Reference level from 0dB)				
10 ~ 400MHz	dB	55	70	-
400 ~ 415MHz	dB	45	59	-
445 ~ 455MHz	dB	30	42	-
455 ~ 810MHz	dB	50	59	-
810 ~ 1000MHz	dB	45	58	-
Temperature coefficient of frequency	ppm/°C	-	-36	-

**C. MEASUREMENT CIRCUIT:**

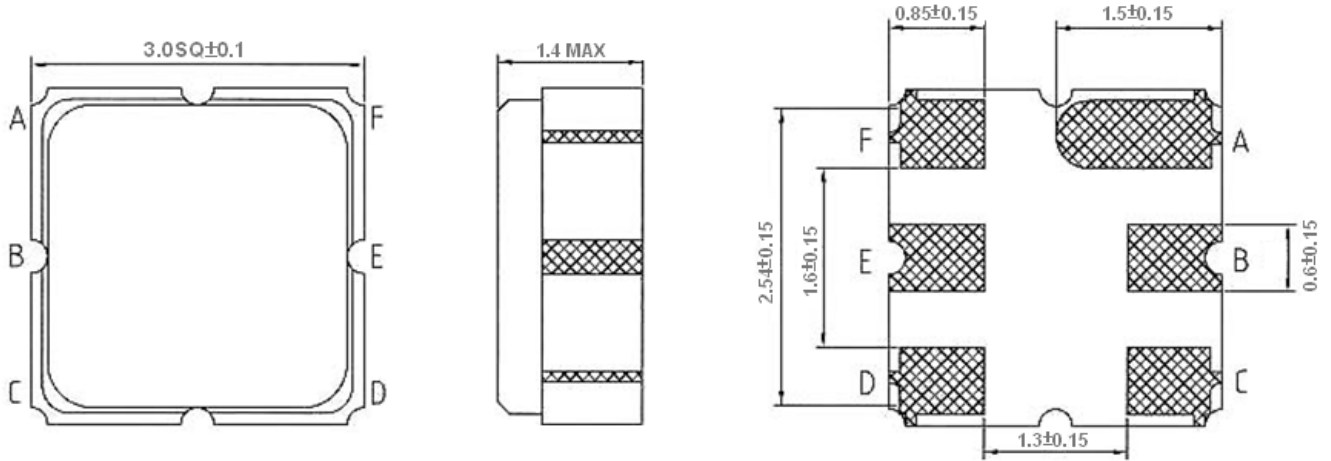
HP Network analyzer



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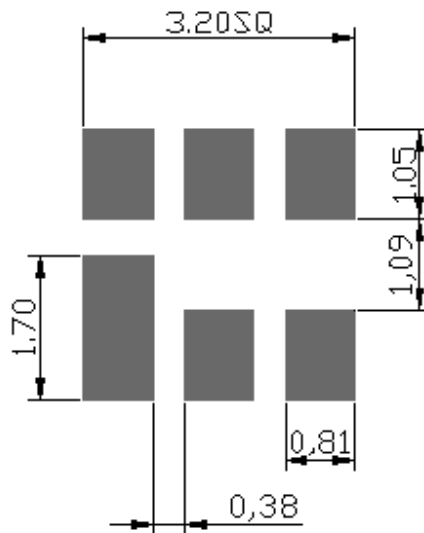
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**D. OUTLINE DRAWING:**



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

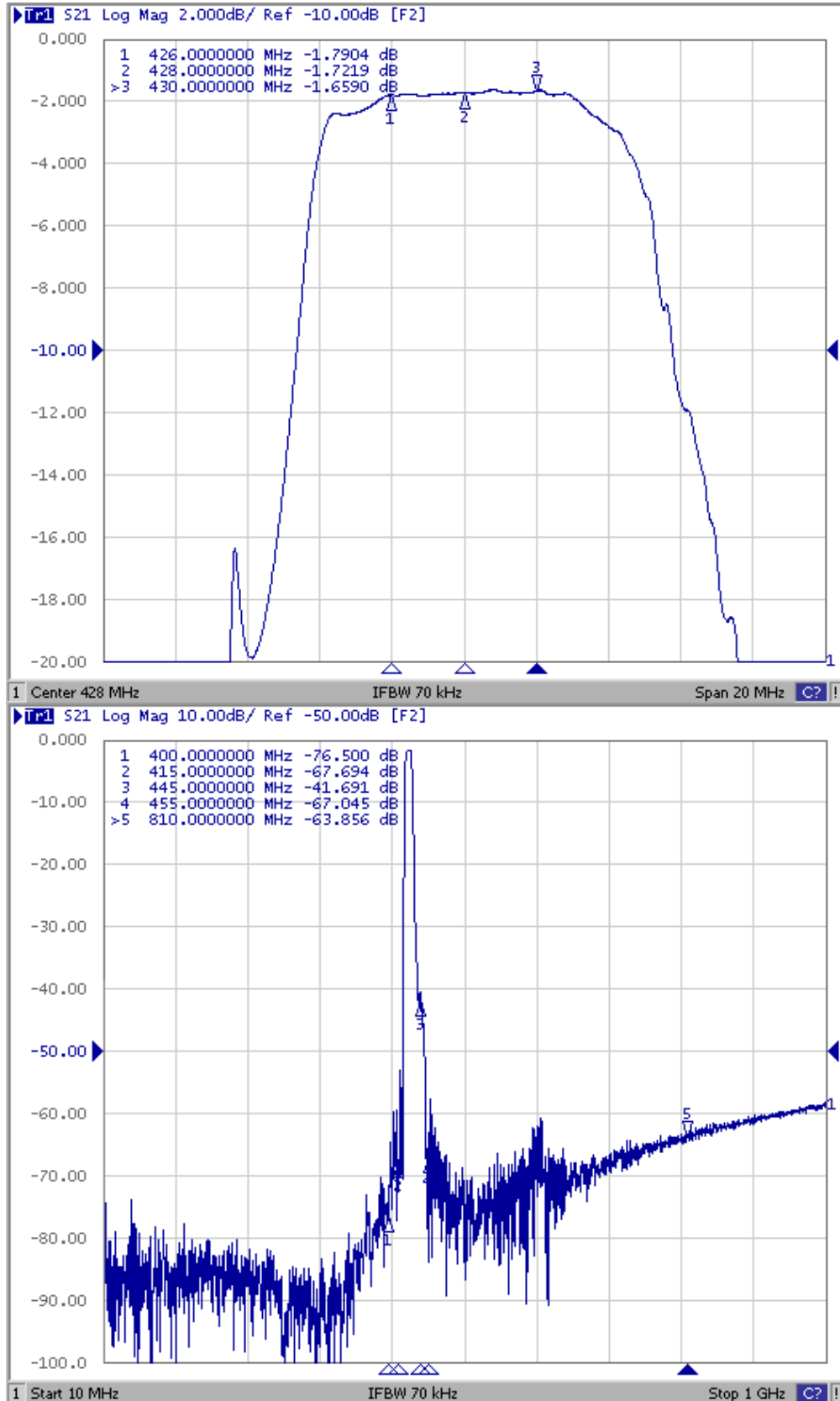
**E. PCB FOOTPRINT:**



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**F. FREQUENCY CHARACTERISTICS:**

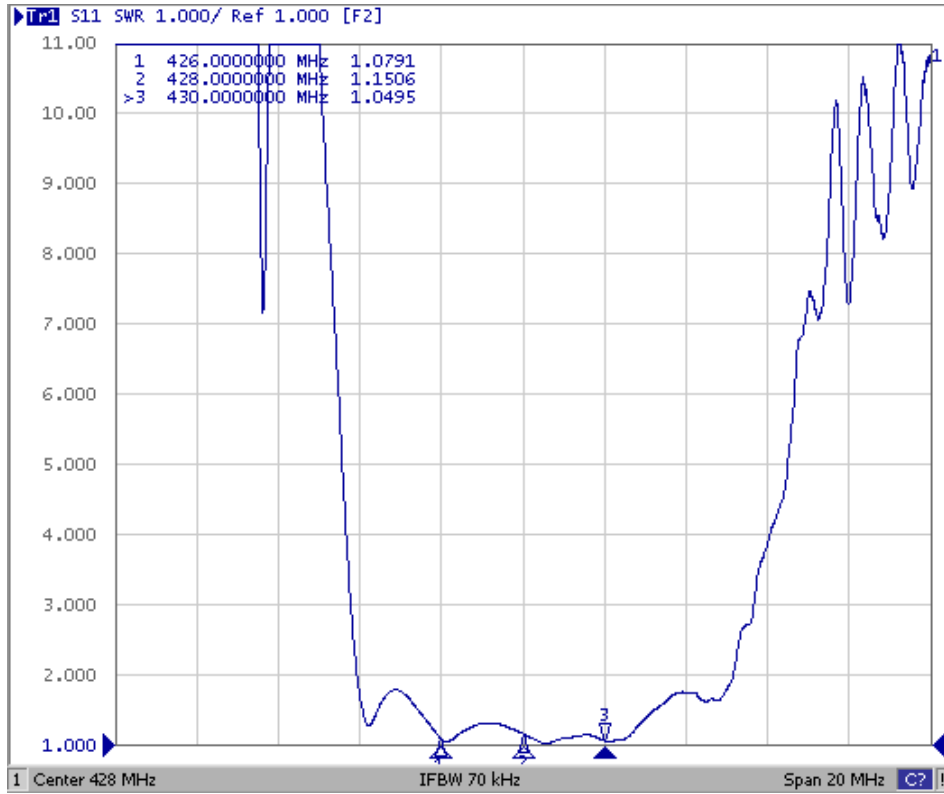


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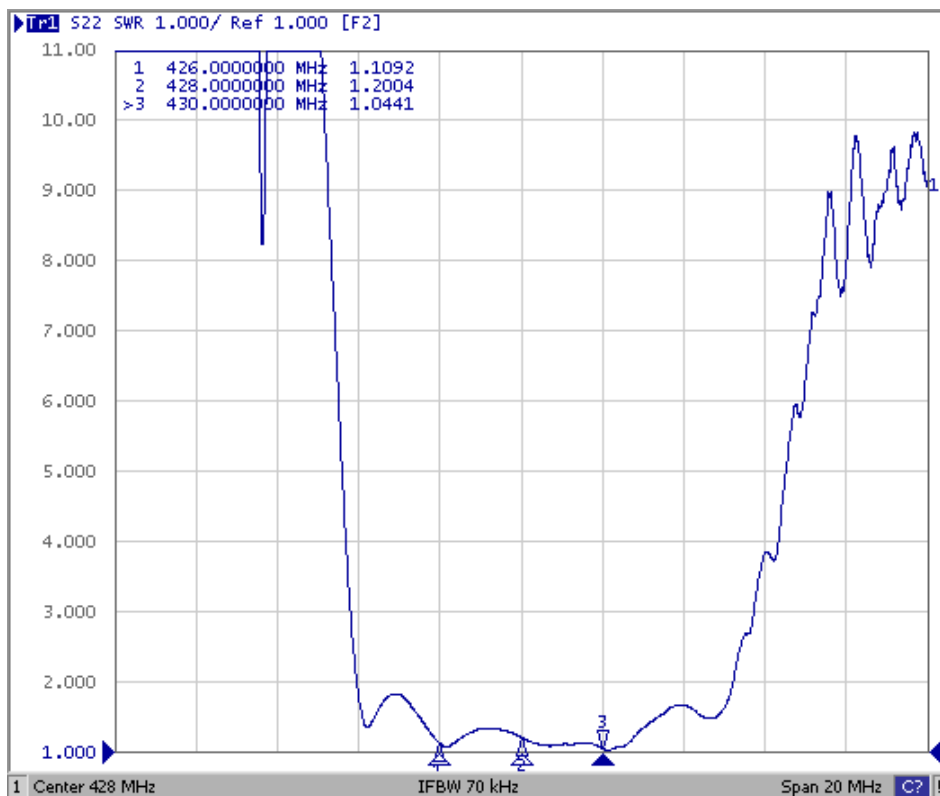
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Reflection Functions

S11



S22

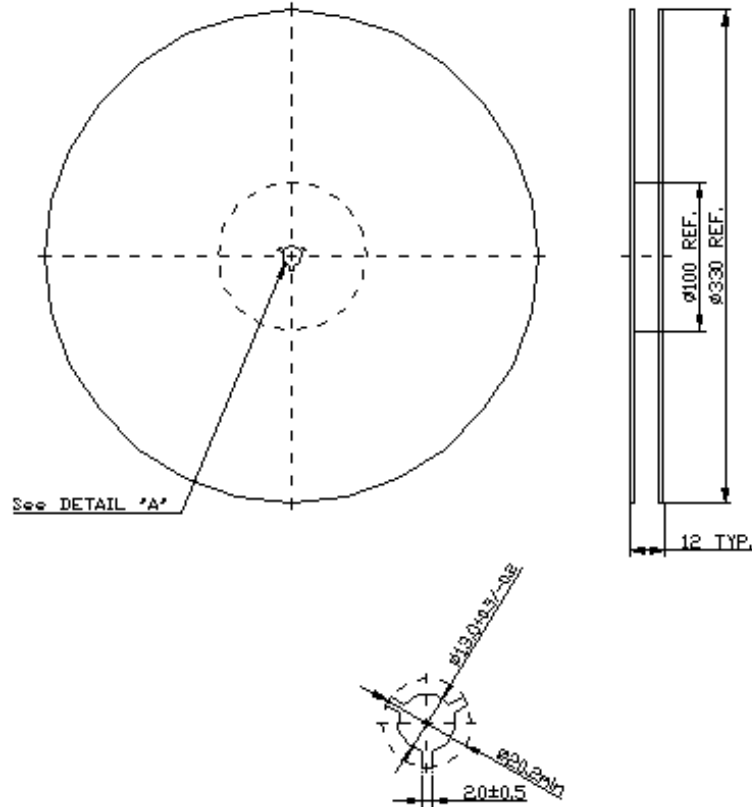


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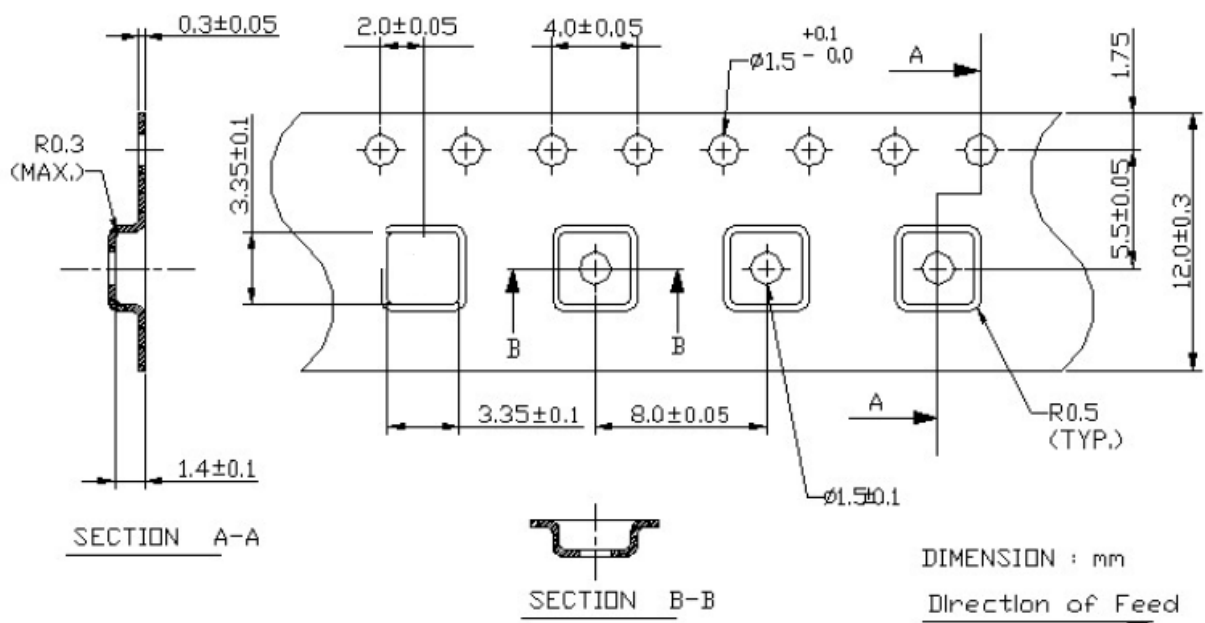
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**G. PACKING:**

1. Reel Dimension (Please refer to FR-75D10 for packing quantity)



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 250 ± 10°C peak (max. 10 sec).
4. Time: 2 times.

