

**SAW Filter: 462.40MHz**  
**Part No: MP10420**

**Model: TA1853A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 27dBm
2. DC Voltage: 0V
3. Operating Temperature: -30°C to +80°C
4. Storage Temperature: -40°C to +85°C

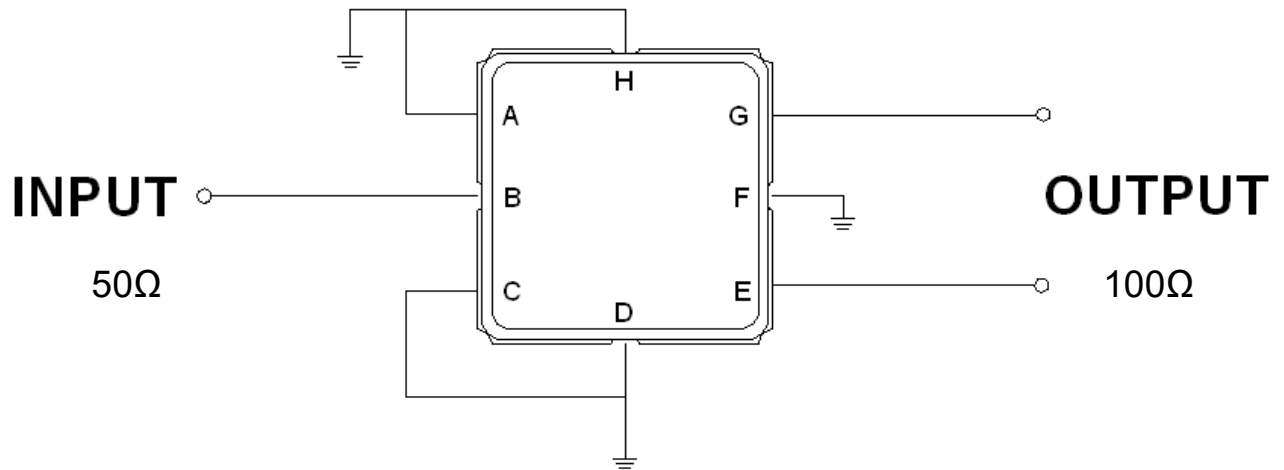
**B. ELECTRICAL CHARACTERISTICS:**

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	462.4	-
Insertion Loss (460 ~ 464.8MHz) IL	dB	-	2.7	4.0
VSWR (460~464.8MHz)	-	-	1.7	2.4
Attenuation (Reference level from 0dB)				
0.3 ~ 450MHz	dB	40	50	-
450 ~ 454.8MHz	dB	35	47	-
485 ~ 505MHz	dB	40	48	-
505 ~ 1200MHz	dB	40	55	-
1200 ~ 2000MHz	dB	35	50	-

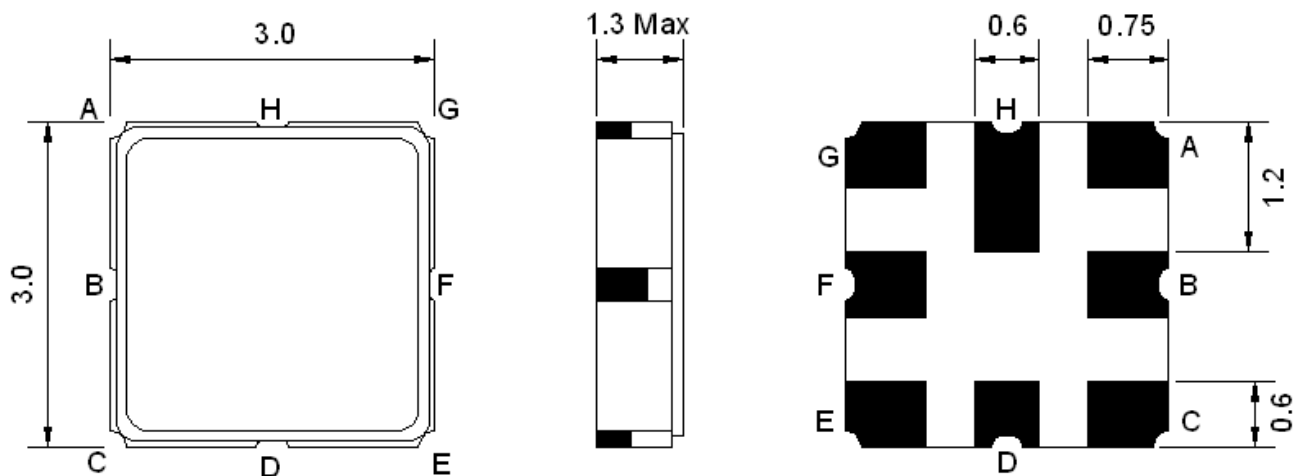
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**C. MEASUREMENT CIRCUIT:**



**D. OUTLINE DRAWING:**

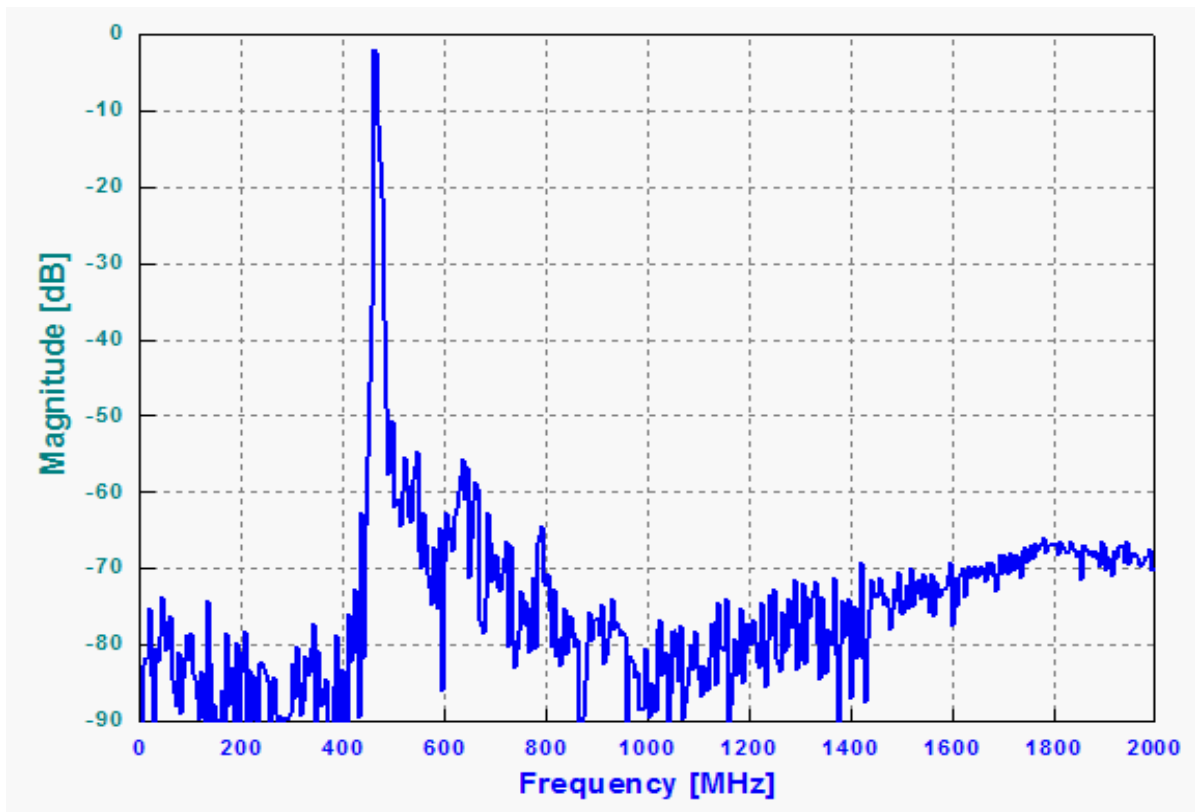
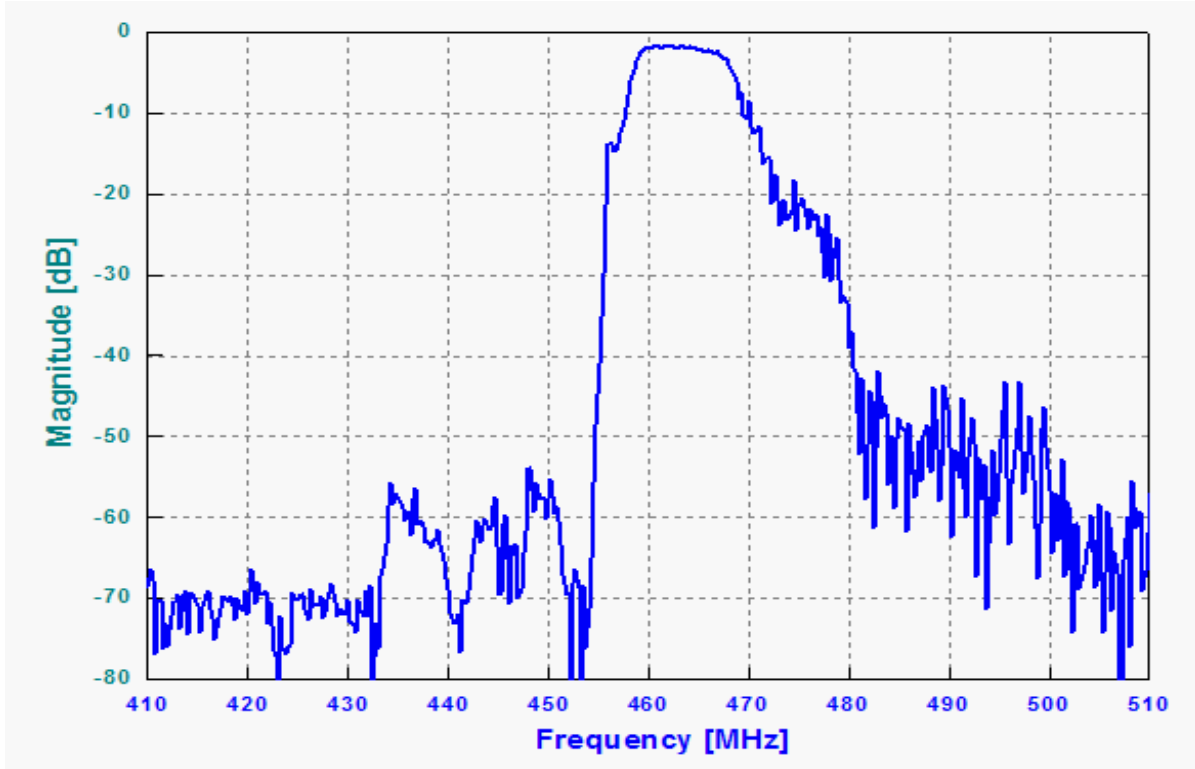


B: Input  
E, G: Output  
A, C, D, F, H: Ground

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**E. FREQUENCY CHARACTERISTICS:**

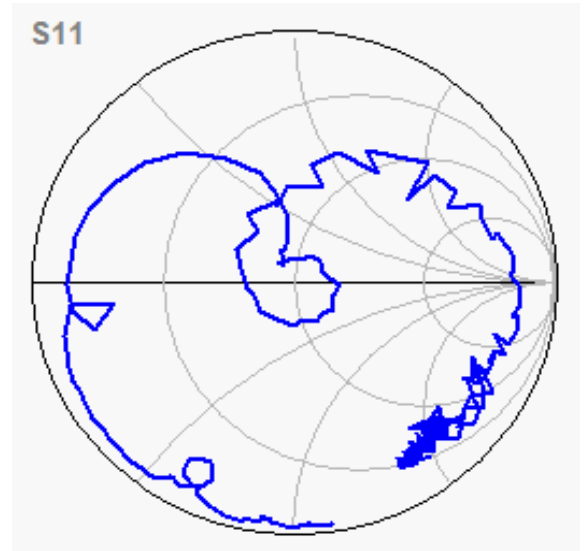
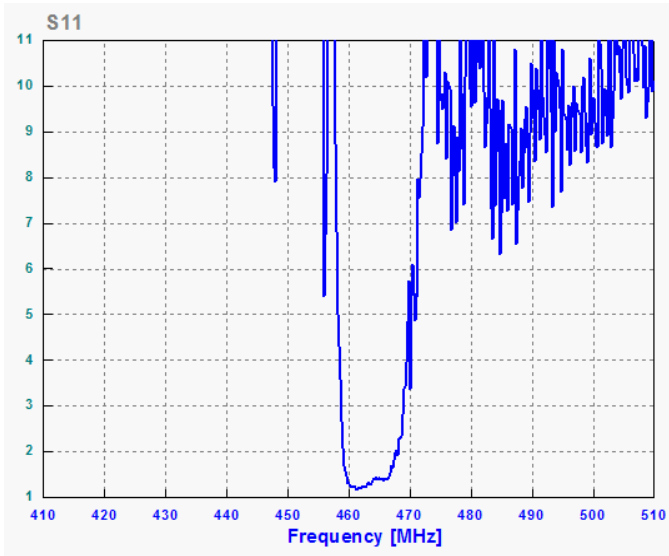


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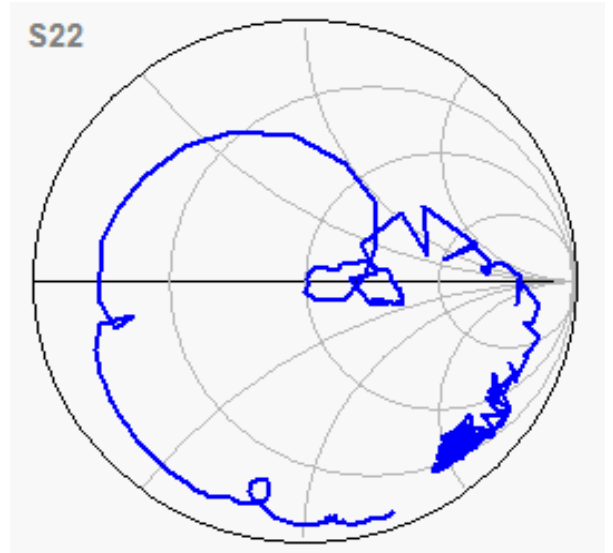
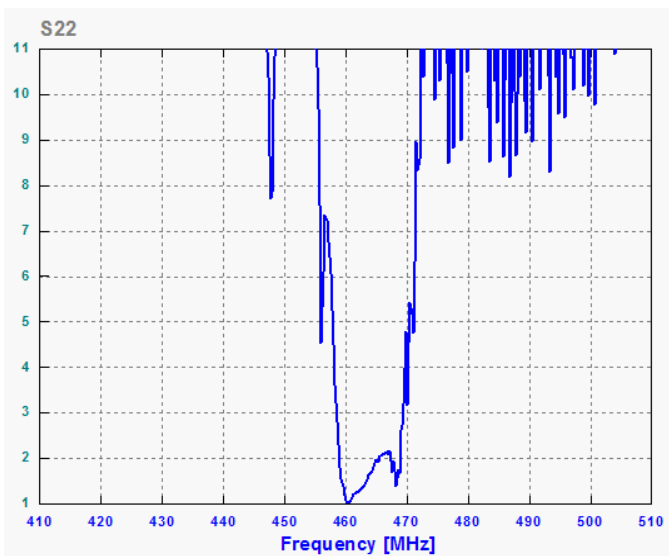
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Reflection Functions

S11



S22

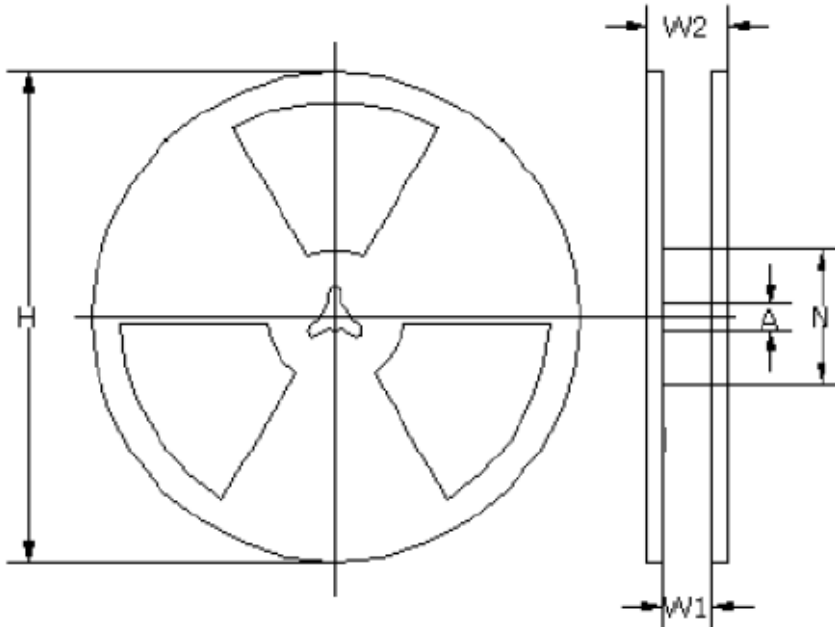


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**F. PACKING:**

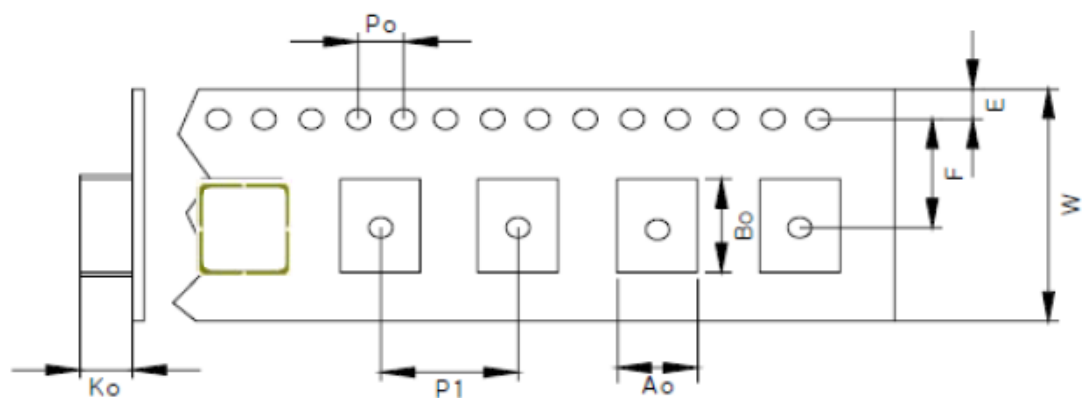
1. Reel Dimensions



(Unit : mm)

A	N	H	W1	W2
$\Phi 13 \pm 0.5$	$\Phi 62 \pm 1.0$	$\Phi 330.0 \pm 1.0$	$12.0 \pm 1.0$	$16.0 \pm 1.0$

2. Tape Dimensions



(Unit : mm)

A	B	K0	W	E	F	P0	P1
$3.4 \pm 0.1$	$3.4 \pm 0.1$	$1.4 \pm 0.1$	$12.0 \pm 0.3$	$1.75 \pm 0.1$	$5.5 \pm 0.1$	$4.0 \pm 0.1$	$8.0 \pm 0.1$

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**G. 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.

