

**SAW Filter 858.50MHz**  
**Part No: MP05046**

**Model: TA1416A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 10dBm
2. DC Voltage: 3V
3. Operating Temperature: -20°C to +75°C
4. Storage Temperature: -40°C to +85°C

**B. ELECTRICAL CHARACTERISTICS:**

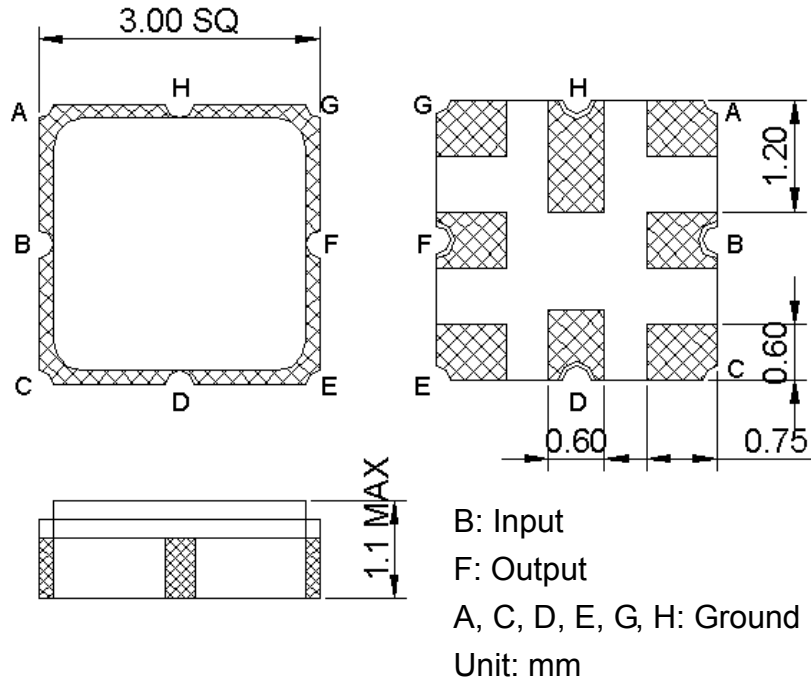
1. Terminating source impedance (single ended):  $Z_S = 50\Omega$
2. Terminating load impedance (single ended):  $Z_L = 50\Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	858.5	-	-
Insertion Loss (840 ~ 877MHz)	dB	-	3.15	4	-
Amplitude Ripple (840 ~ 877MHz)	dB	-	0.8	2	-
VSWR (840 ~ 877MHz)		-	1.3	2.1	-
Attenuation (reference level from 0dB)					
DC ~ 790MHz	dB	25	35	-	-
989 ~ 1005MHz	dB	30	47	-	-
1642 ~ 1792MHz	dB	30	36	-	-
1792 ~ 3000MHz	dB	15	25	-	-
Temperature Coefficient of Frequency	ppm/°C	-	-75	-	-

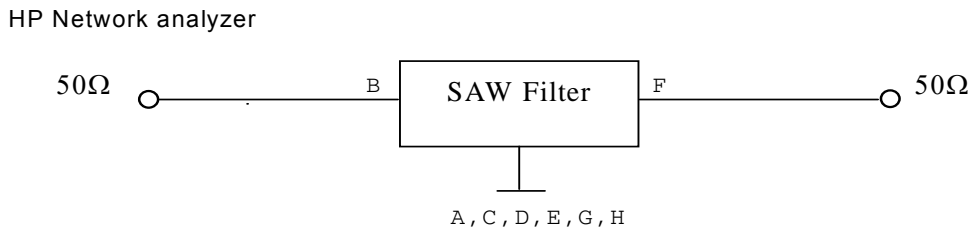
**SAW Filter 858.50MHz**  
**Part No: MP05046**

**Model: TA1416A**  
**Rev No: 1**

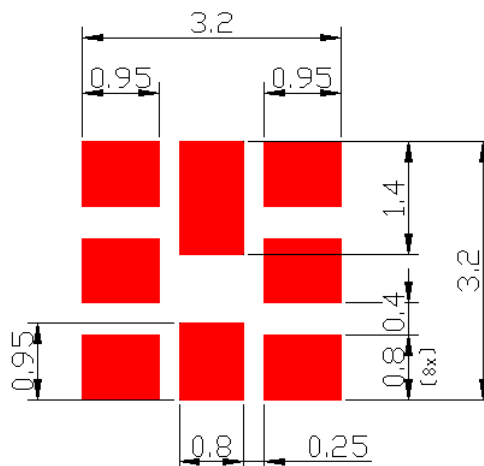
**C. OUTLINE DRAWING:**



**D. MEASUREMENT CIRCUIT:**



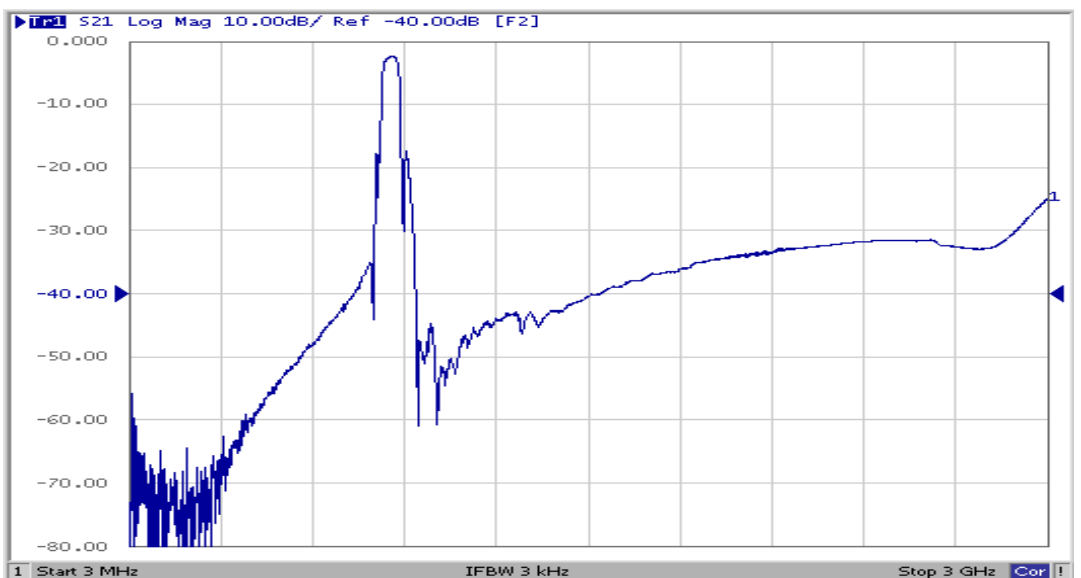
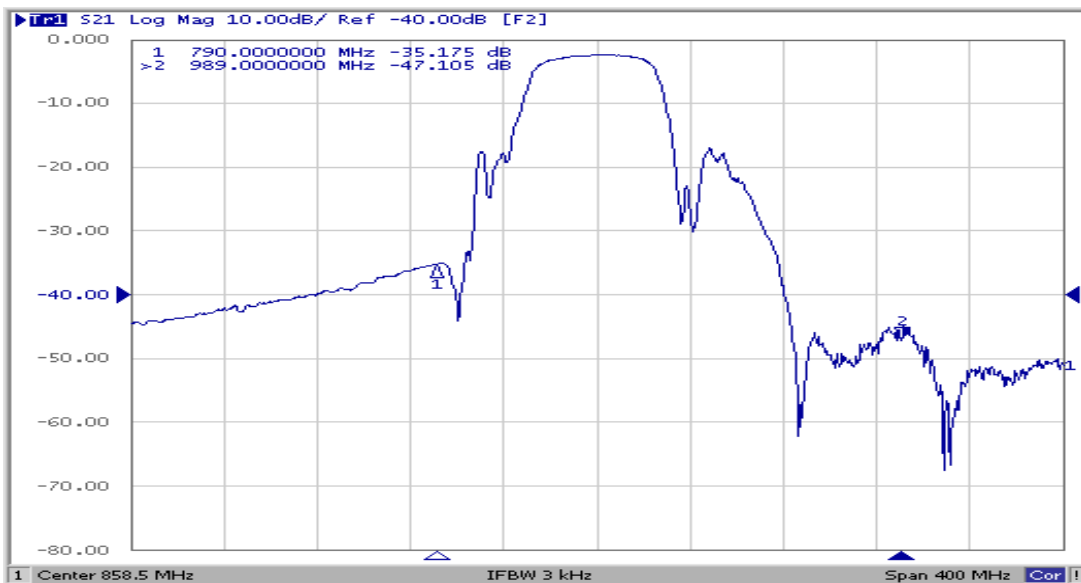
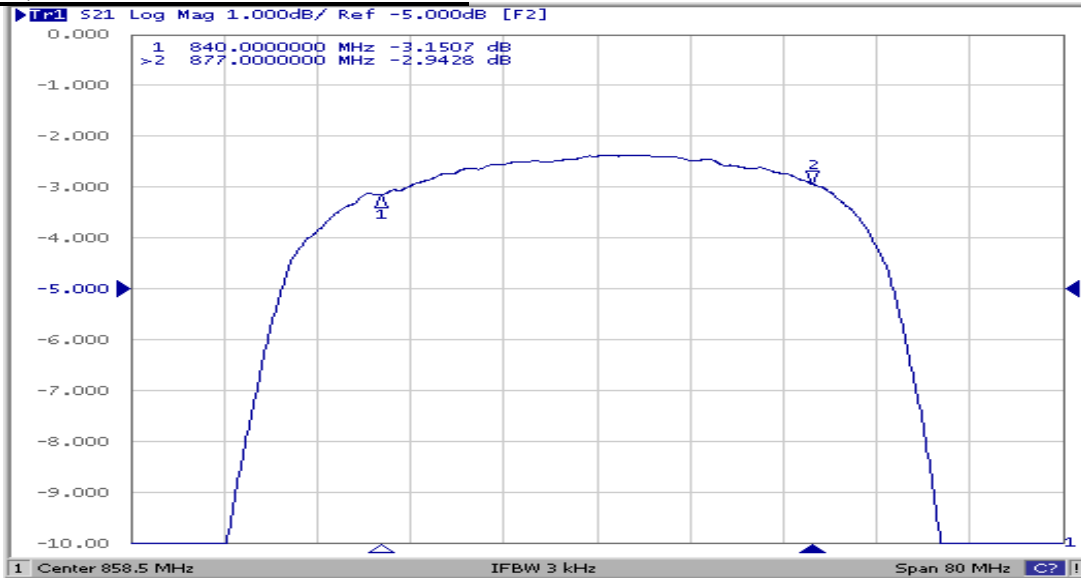
**E. PCB FOOTPRINT:**



**SAW Filter 858.50MHz**  
**Part No: MP05046**

**Model: TA1416A**  
**Rev No: 1**

**F. FREQUENCY CHARACTERISTICS:**

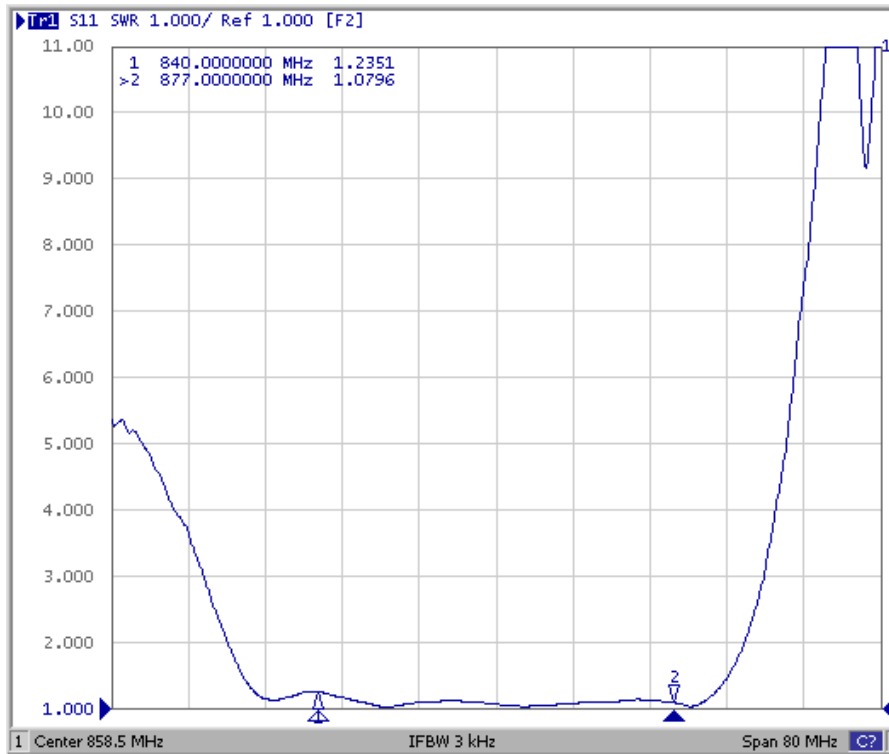


**SAW Filter 858.50MHz**  
**Part No: MP05046**

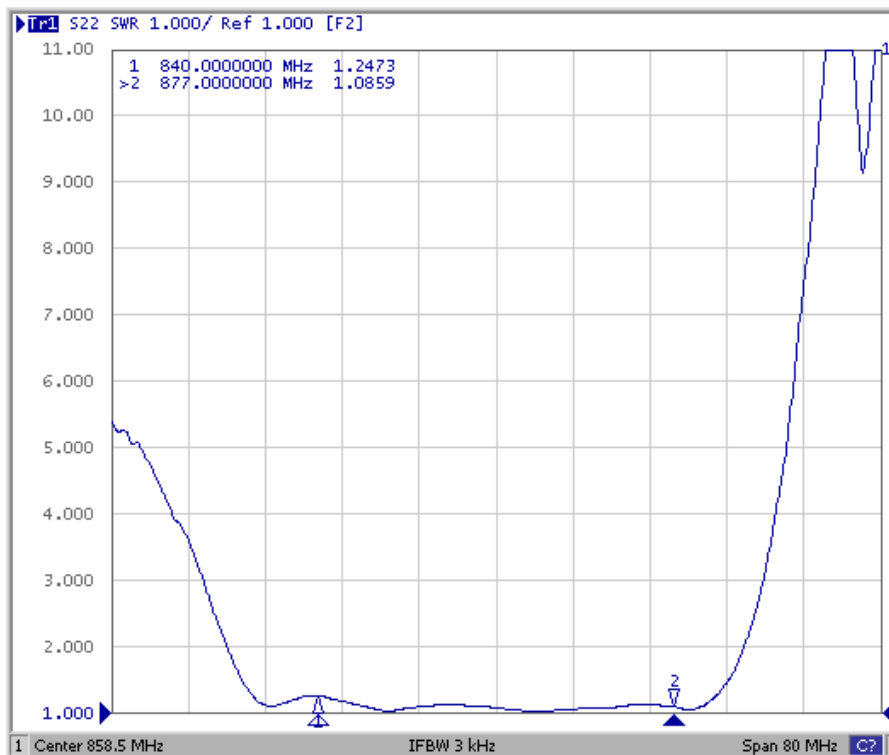
**Model: TA1416A**  
**Rev No: 1**

Reflection Functions

S11



S22

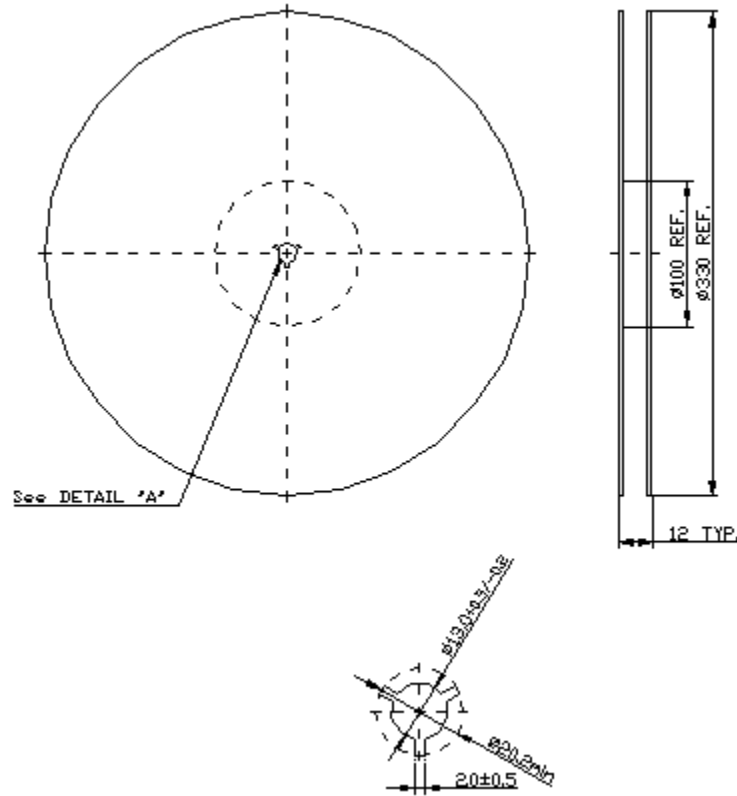


**SAW Filter 858.50MHz**  
**Part No: MP05046**

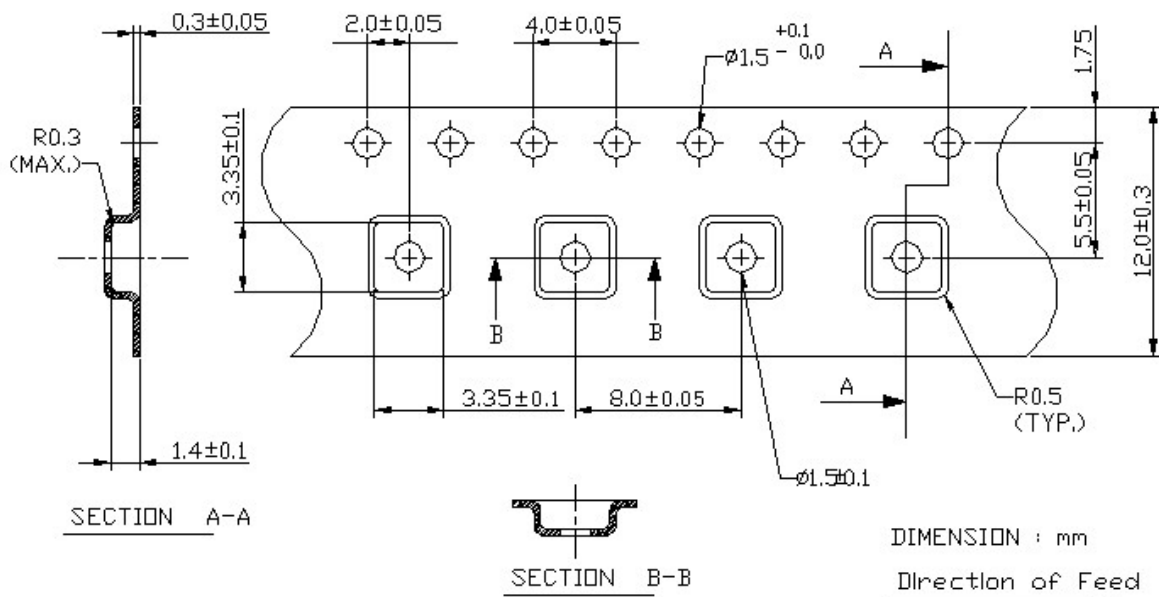
**Model: TA1416A**  
**Rev No: 1**

**G. PACKING:**

1. Reel Dimension



2. Tape Dimension



**SAW Filter 858.50MHz**  
**Part No: MP05046**

**Model: TA1416A**  
**Rev No: 1**

**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.

