

**SAW Filter 869.0MHz AEC-Q200 compliant**  
**Part No: MP08716**

**Model: TA2087A**  
**Rev No: 1**

**A. MAXIMUM RATING:**

Electrostatic Sensitive Device (ESD)

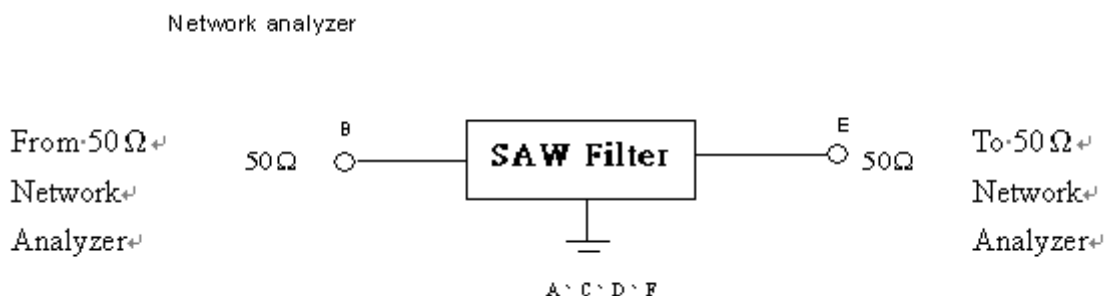
1. Input Power Level: 20dBm
2. DC Voltage: 6V
3. Operating Temperature: -40°C to +80°C
4. Storage Temperature: -40°C to +80°C

**B. ELECTRICAL CHARACTERISTICS:**

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

Item	Unit	Min	Typ.	Max
Center Frequency $F_c$	MHz	-	869.0	-
Insertion Loss (868 ~ 870MHz) IL	dB		3.0	3.5
VSWR (868 ~ 870MHz)			1.5	2.0
Amplitude ripple				
(868 ~ 870MHz)	dB		0.5	1.2
Attenuation				
50 ~ 791MHz	dB	45	50	
791 ~ 835MHz	dB	45	50	
835 ~ 848MHz	dB	43	48	
848 ~ 862MHz	dB	30	41	
880 ~ 883MHz	dB	35	45	
883 ~ 1000MHz	dB	49	54	
Package size	mm	SMD 3 x 3		

**C. TEST CIRCUIT:**

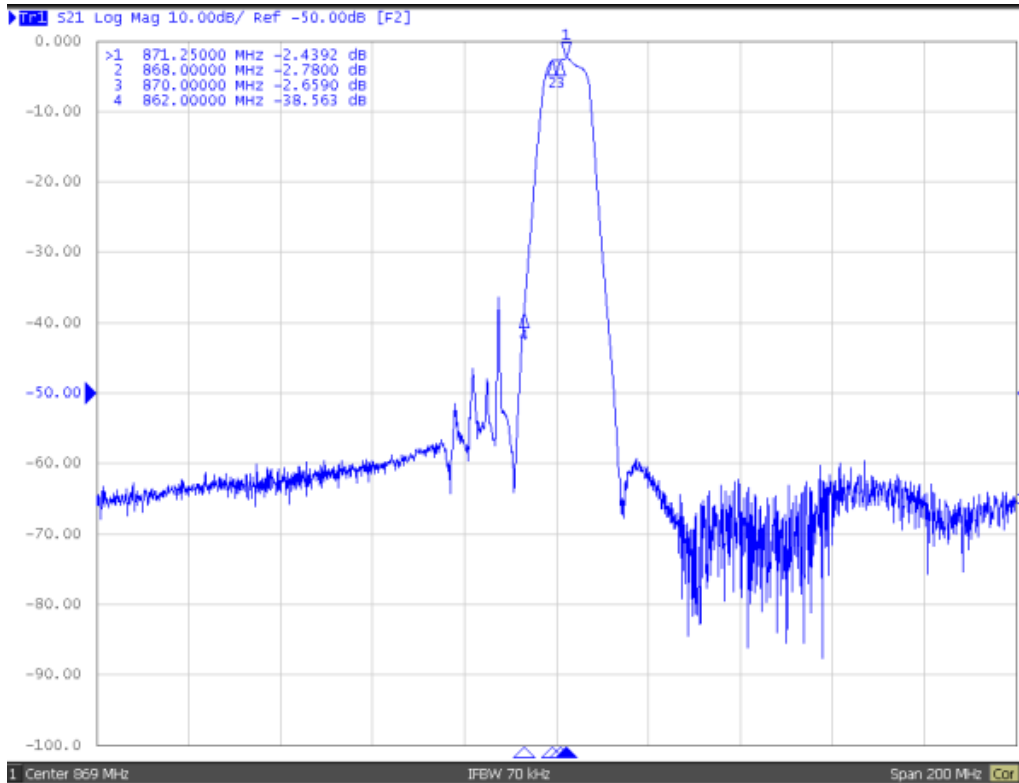


**SAW Filter 869.0MHz AEC-Q200 compliant**  
**Part No: MP08716**

**Model: TA2087A**  
**Rev No: 1**

**D. FREQUENCY CHARACTERISTICS:**

**1. S21 response: (Span 200MHz)**



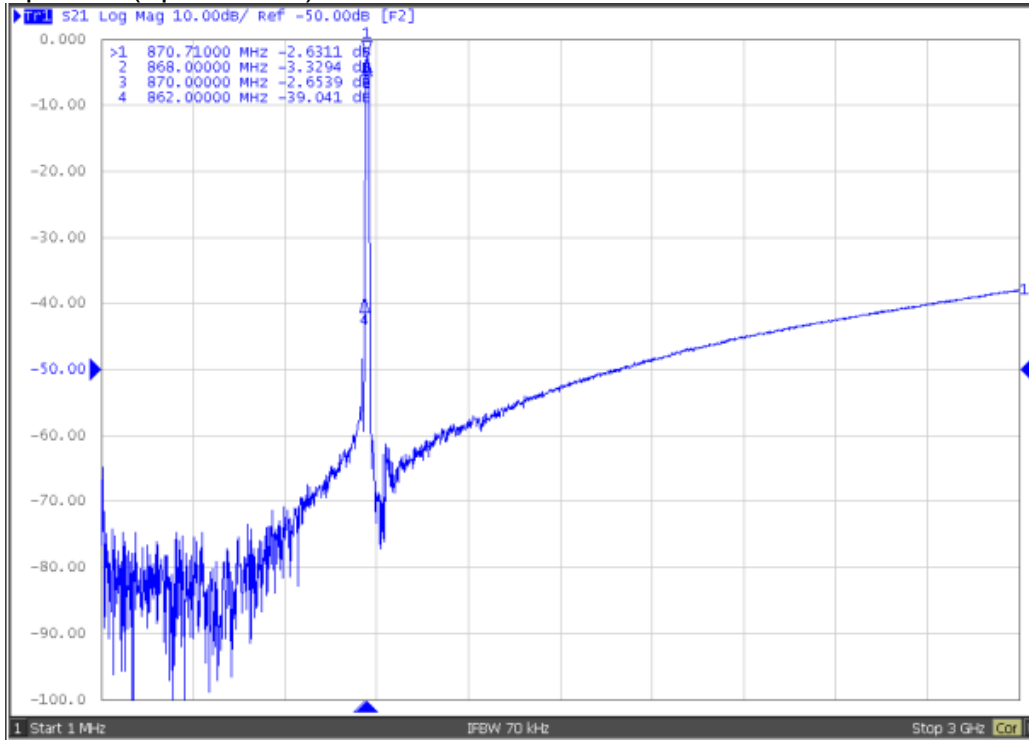
**2. S21 response: (Span 20MHz)**



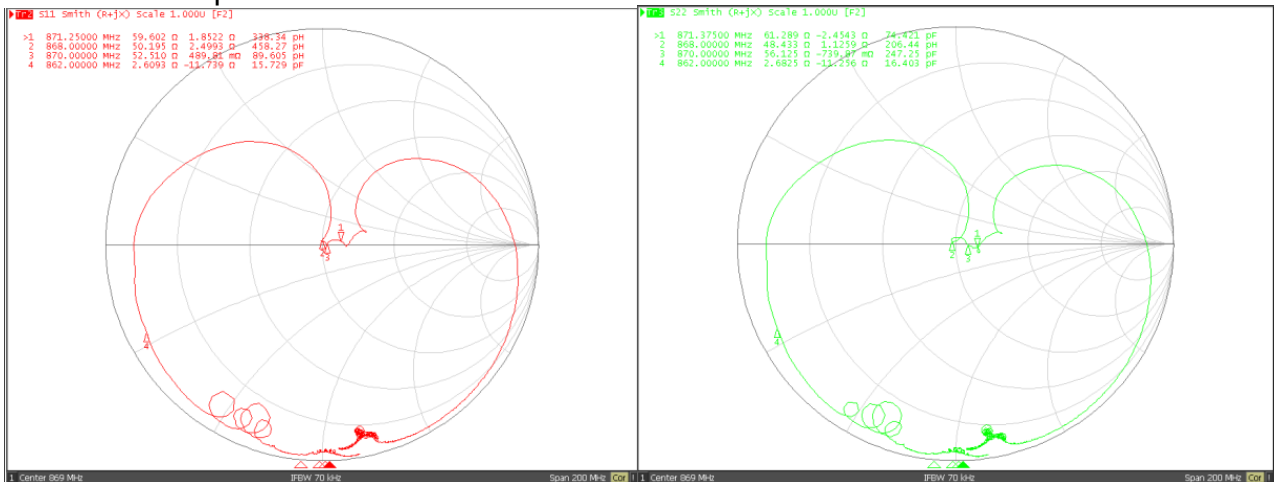
**SAW Filter 869.0MHz AEC-Q200 compliant**  
**Part No: MP08716**

**Model: TA2087A**  
**Rev No: 1**

3. S21 response: (Span 3GHz)



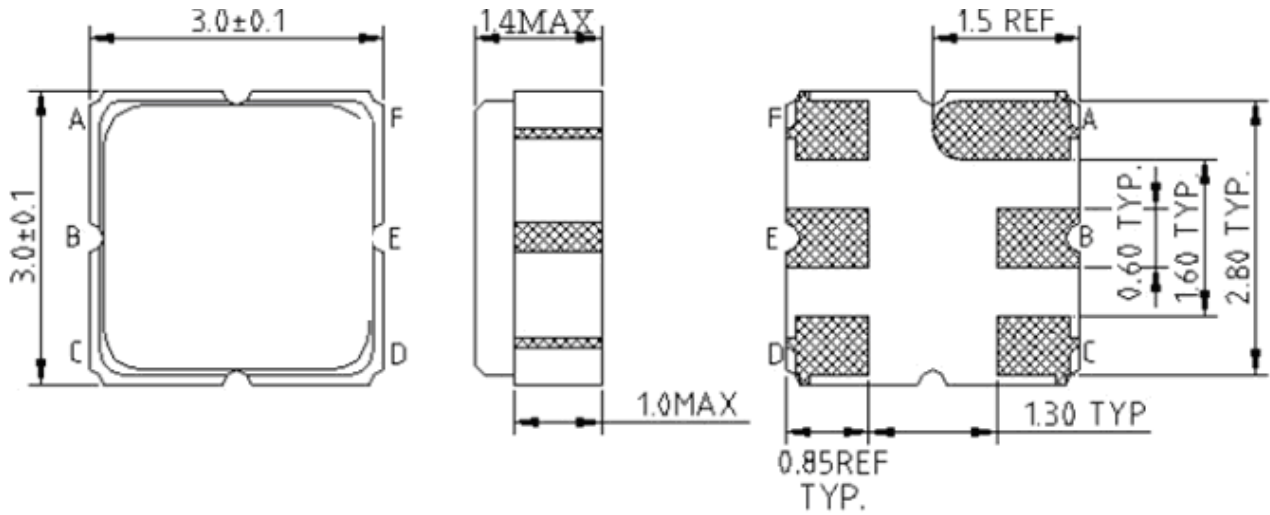
4. S11/S22 response:



**SAW Filter 869.0MHz AEC-Q200 compliant**  
**Part No: MP08716**

**Model: TA2087A**  
**Rev No: 1**

**E. OUTLINE DRAWING:**



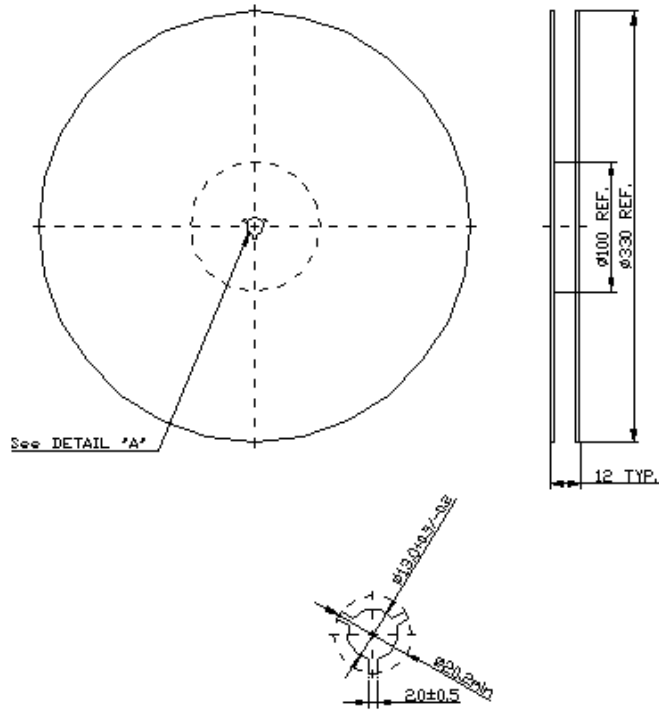
#B: Input  
#E: Output  
# A.C.D.F Ground

**SAW Filter 869.0MHz AEC-Q200 compliant**  
**Part No: MP08716**

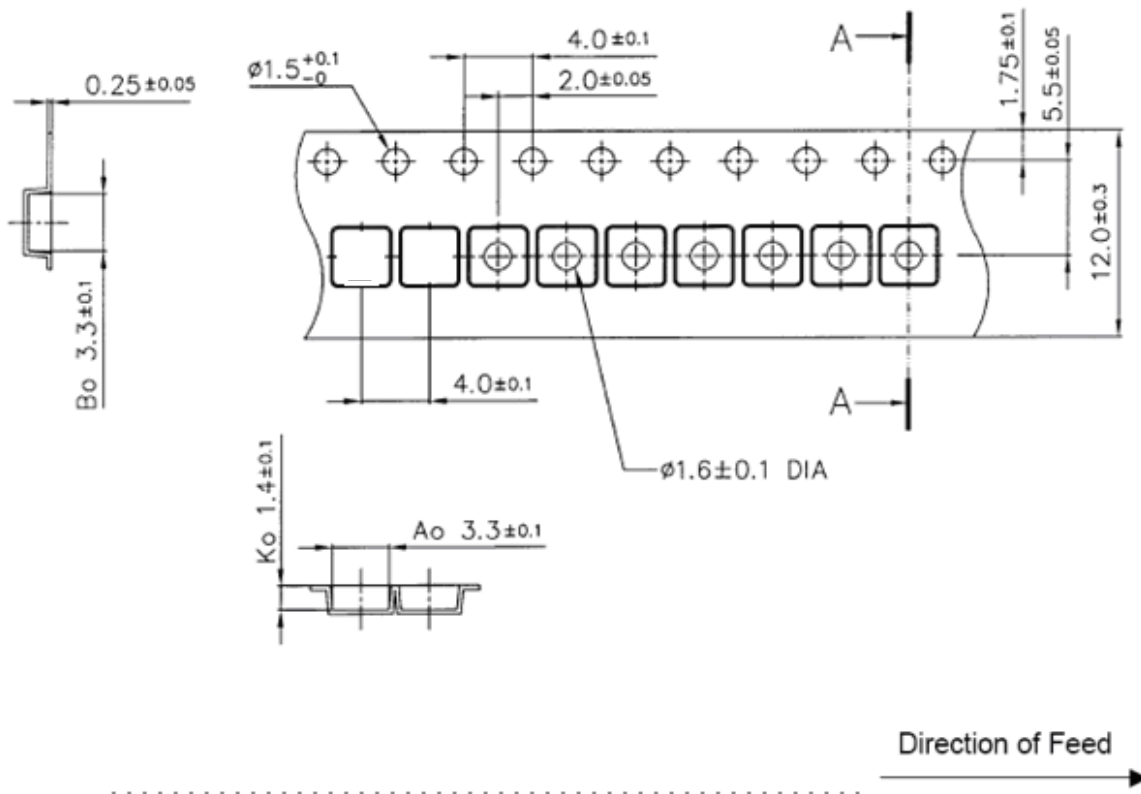
**Model: TA2087A**  
**Rev No: 1**

**F. PACKING:**

1. Reel Dimension



2. TAPE DIMENSION.



**SAW Filter 869.0MHz AEC-Q200 compliant**  
**Part No: MP08716**

**Model: TA2087A**  
**Rev No: 1**

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

