

SAW Filter 1587.1 MHz
Part No: MP08730

Model: TA1923A
Rev No: 2

Electrostatic Sensitive Device (ESD)

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm (50k hours Max.)
2. DC Voltage: 3 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitive Level: Level 1 (MSL1)

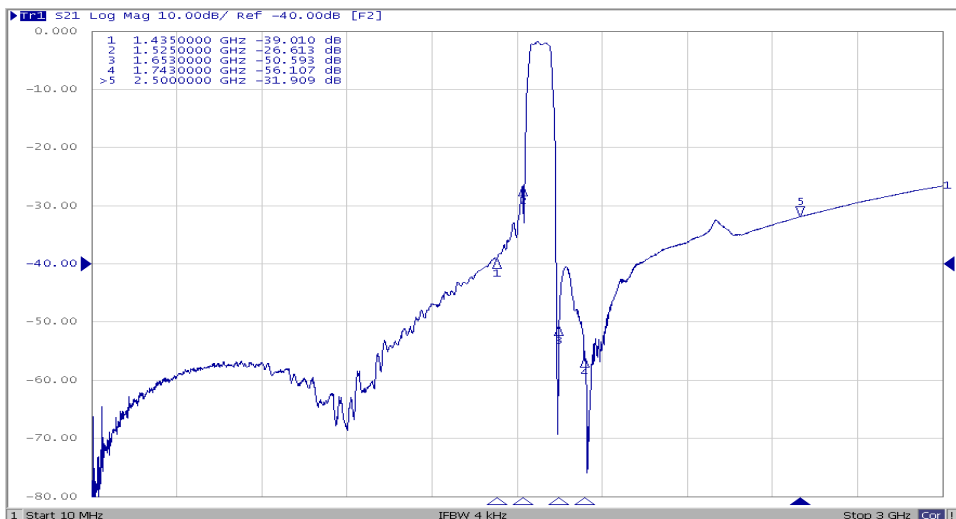
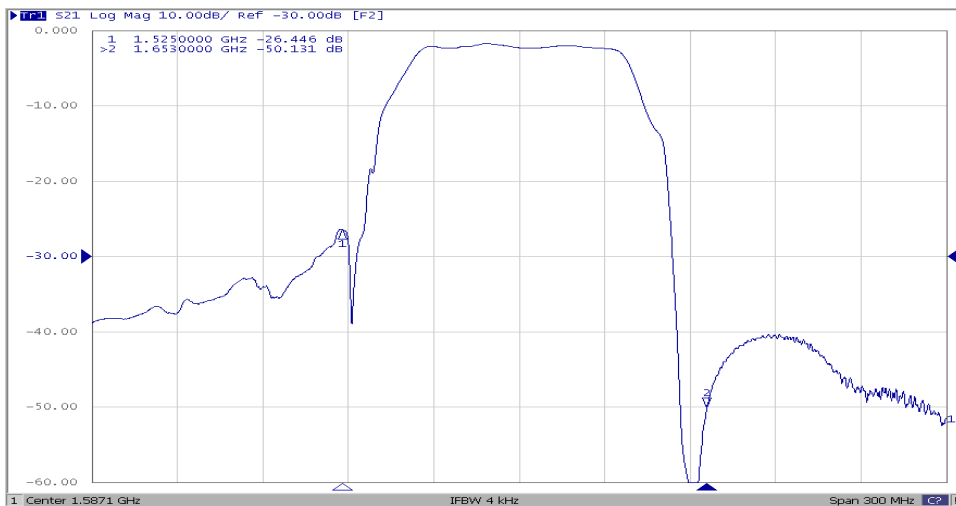
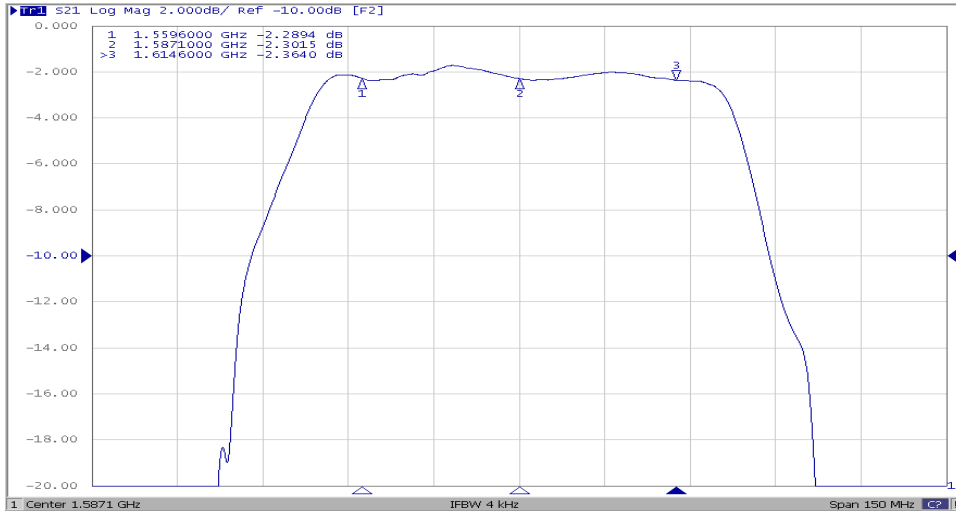
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1587.1	-
Insertion Loss (1559.6~1614.6 MHz) IL	dB	-	2.4	4.0
Amplitude Ripple (1565.1~1609.1 MHz)	dB	-	0.7	1.2
Group Delay Ripple (1559.6~1614.6 MHz)	ns	-	7	50
Input _ VSWR (1559.6~1614.6 MHz)	-	-	2.3	2.4
Output _ VSWR (1559.6~1614.6 MHz)	-	-	2.2	2.45
Attenuation (Reference level from 0 dB)				
10 ~ 1435 MHz	dB	35	38	-
1435 ~ 1525 MHz	dB	20	26	-
1653 ~ 1743 MHz	dB	25	40	-
1743 ~ 2500 MHz	dB	28	31	-
2500 ~ 3000 MHz	dB	20	26	-
Temperature coefficient of frequency	ppm/k	-	-36	-

SAW Filter 1587.1 MHz
Part No: MP08730

Model: TA1923A
Rev No: 2

C. FREQUENCY CHARACTERISTICS:

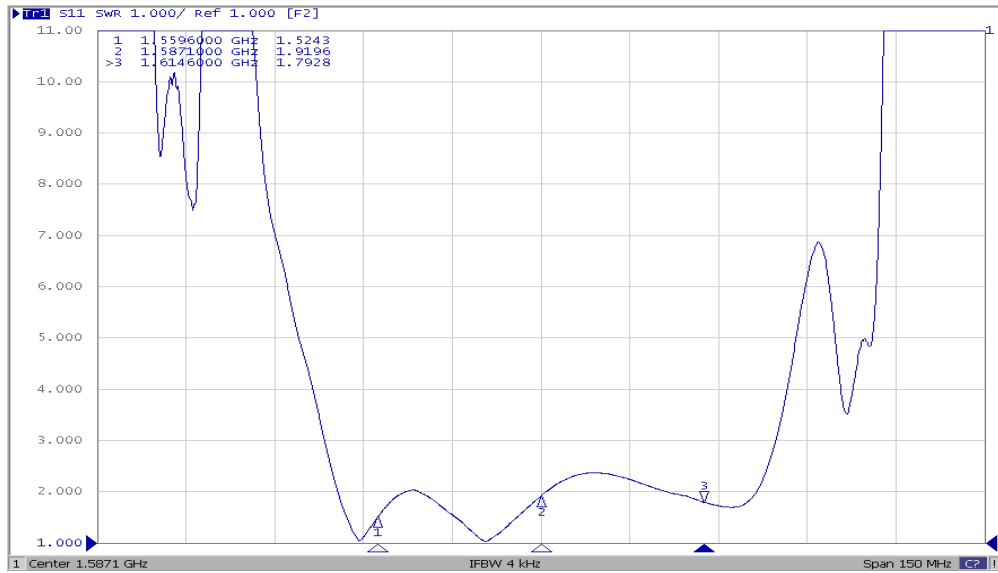


SAW Filter 1587.1 MHz
Part No: MP08730

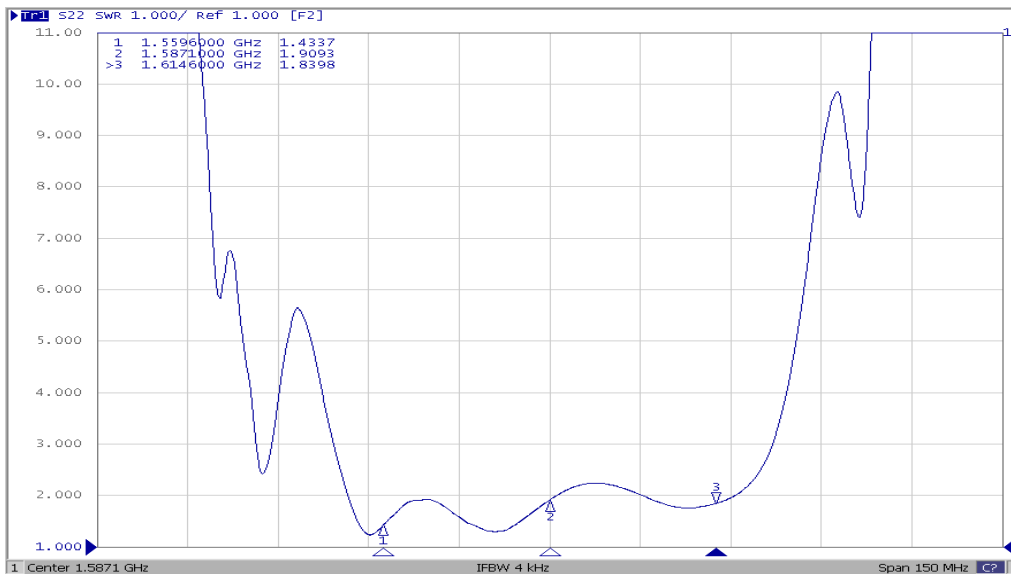
Model: TA1923A
Rev No: 2

Reflection Functions:

S11



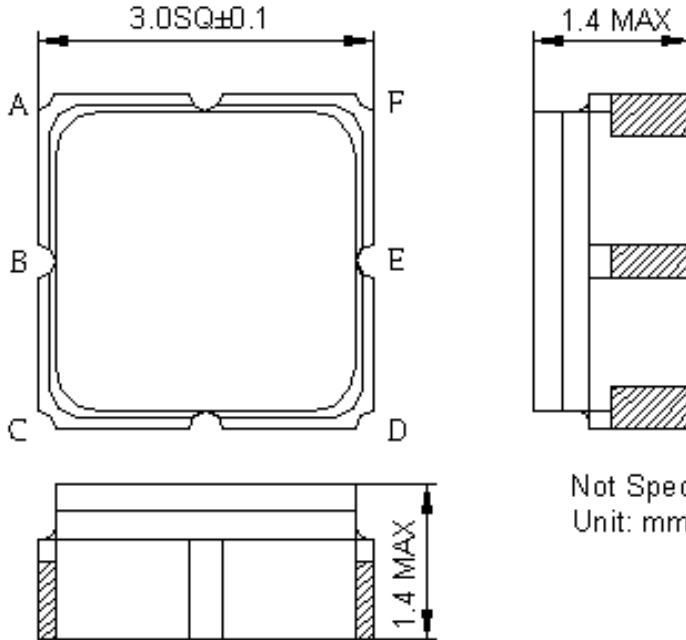
S22



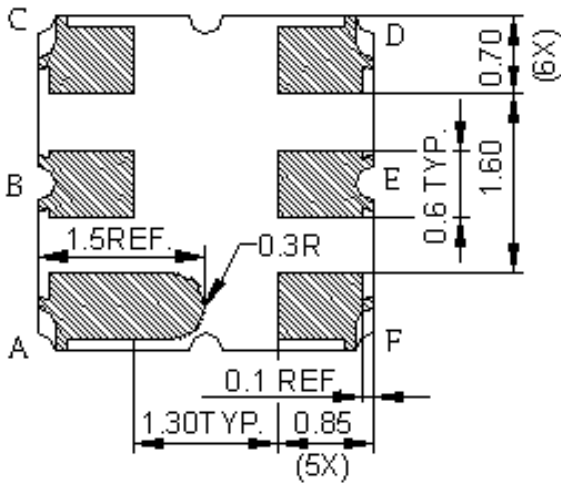
SAW Filter 1587.1 MHz
Part No: MP08730

Model: TA1923A
Rev No: 2

D. OUTLINE DRAWING:

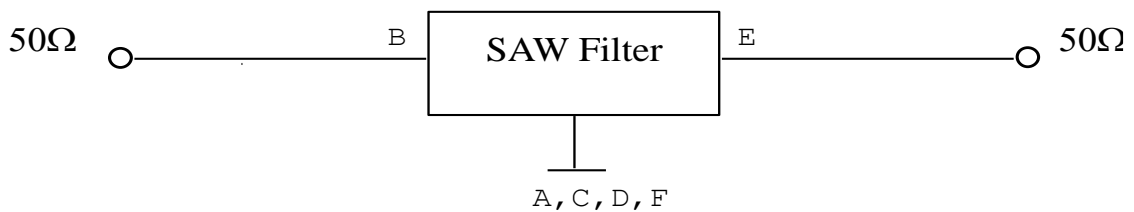


Not Specified Tolerance : +/-0.15 mm
 Unit: mm



E. MEASUREMENT CIRCUIT:

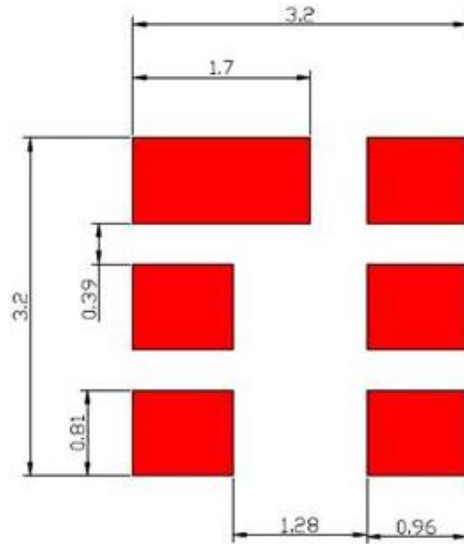
HP Network analyzer



SAW Filter 1587.1 MHz
Part No: MP08730

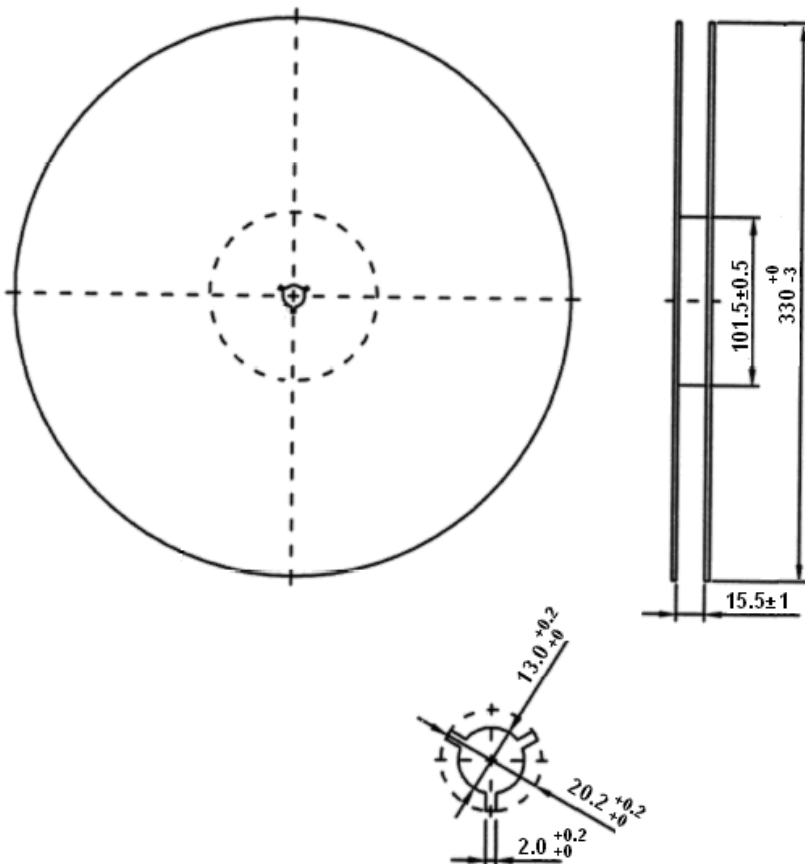
Model: TA1923A
Rev No: 2

F. PCB FOOTPRINT:



G. PACKING:

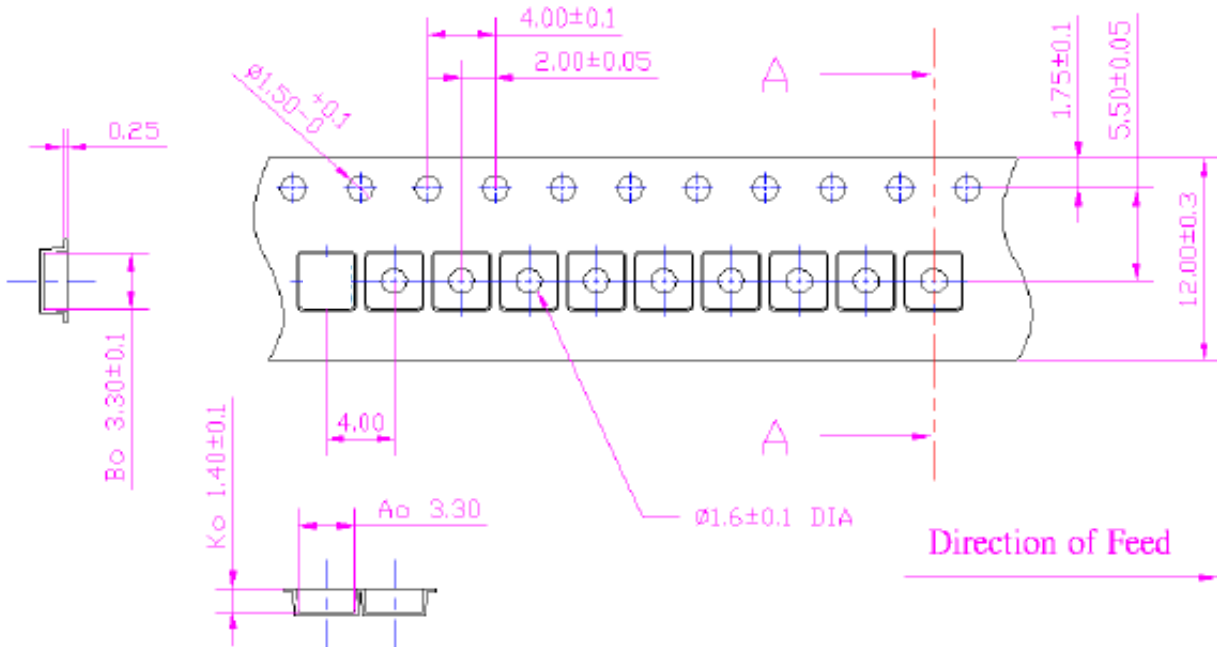
1. Reel dimension



SAW Filter 1587.1 MHz
Part No: MP08730

Model: TA1923A
Rev No: 2

2. Tape dimension



H. RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at $150\sim 180^{\circ}\text{C}$ for $60\sim 90$ seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for $50\sim 80$ seconds and at $260^{\circ}\text{C} \pm 0/-5^{\circ}\text{C}$ peak ($20\sim 40$ sec).
4. Time: 2 times.

