

SAW Filter 2450.0MHz
Part No: MP05240

Model: TA1629A
Rev No: 4

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 28dBm
2. DC Voltage: 3V
3. Operating Temperature: -30°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

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

Parameters Description	Unit	Min.	Typ.	Max.
Center Frequency (Fc)	MHz	-	2450.0	-
Max. Insertion Loss within 2400.0 ~ 2500.0MHz	dB	-	1.6	2.5
Amplitude Ripple within 2400.0 ~ 2500.0MHz	dB p-p	-	0.4	1.5
VSWR within 2400.0 ~ 2500.0MHz	-	-	1.4	2.3
Attenuation:				
D.C ~ 960.0MHz	dB	35	55	-
960.0 ~ 1570.0MHz	dB	35	42	-
1570.0 ~ 1580.0MHz	dB	35	41	-
1580.0 ~ 1710.0MHz	dB	35	40	-
1710.0 ~ 1910.0MHz	dB	30	35	-
1910.0 ~ 1980.0MHz	dB	30	36	-
2110.0 ~ 2170.0MHz	dB	30	35	-
2640.0 ~ 3000.0MHz	dB	25	31	-
3000.0 ~ 4800.0MHz	dB	25	32	-
4800.0 ~ 5000.0MHz	dB	20	35	-
5000.0 ~ 6000.0MHz	dB	20	32	-

Note:

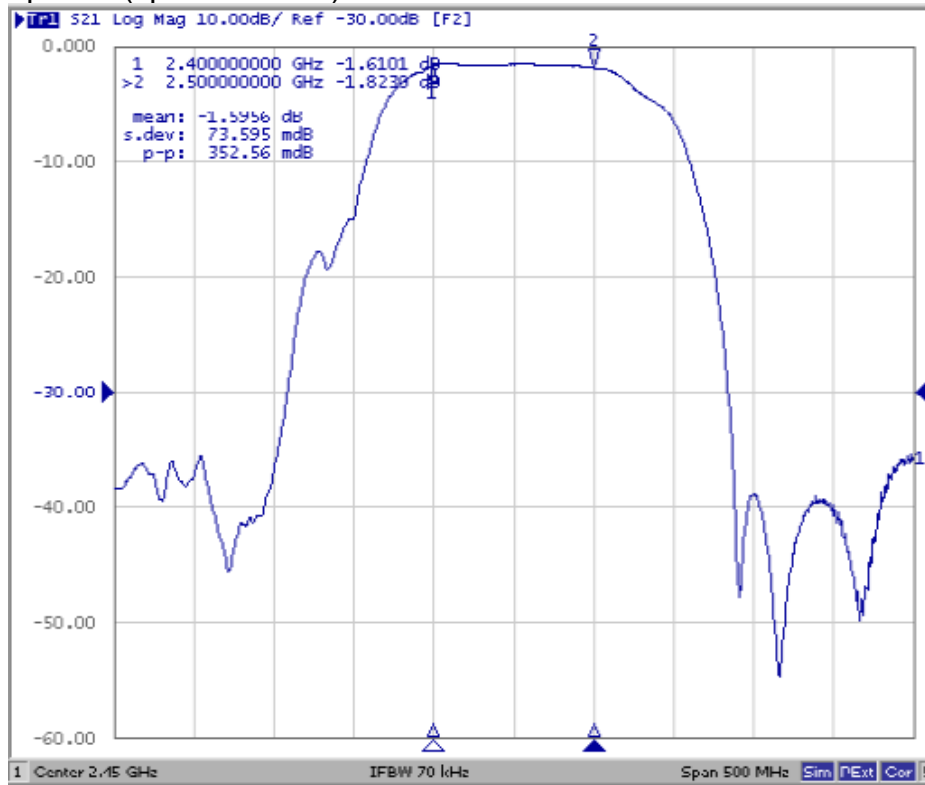
With Matching Network (Ref. Testing Environment Circuit as shown below).

SAW Filter 2450.0MHz
Part No: MP05240

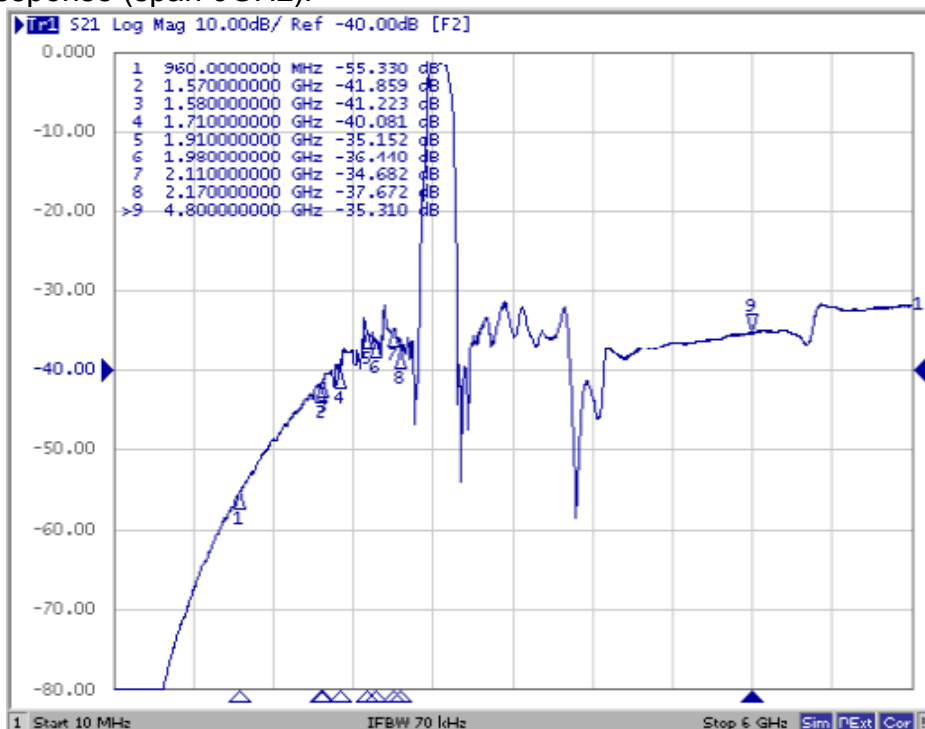
Model: TA1629A
Rev No: 4

C. FREQUENCY CHARACTERISTICS:

1. S21 Response (span 500MHz):



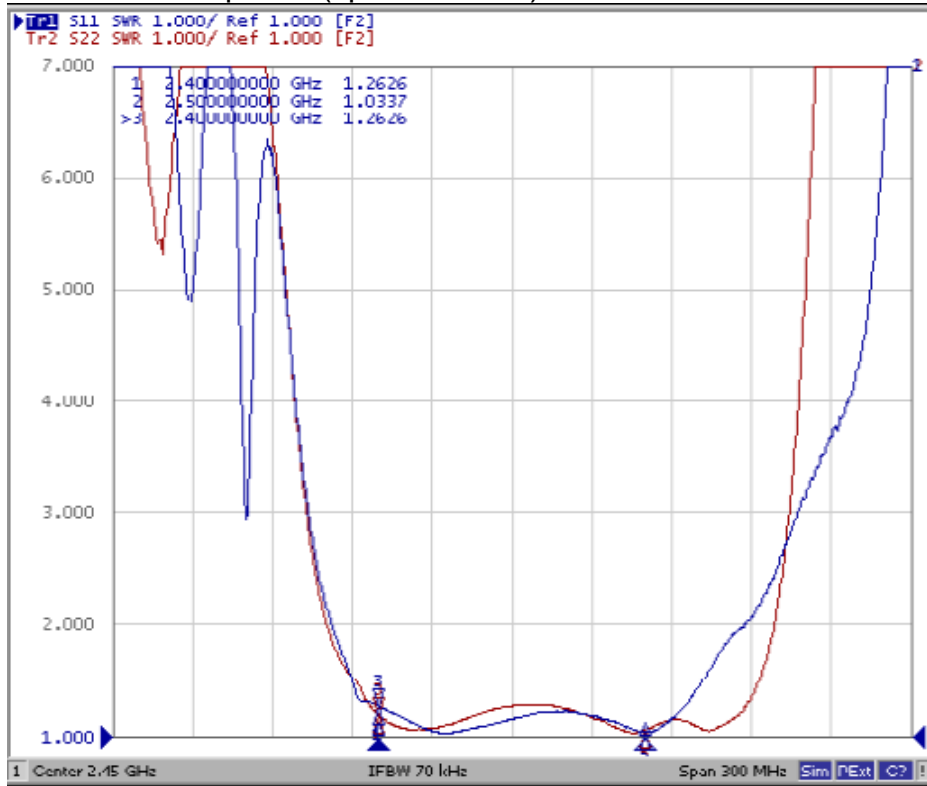
2. S21 Response (span 6GHz):



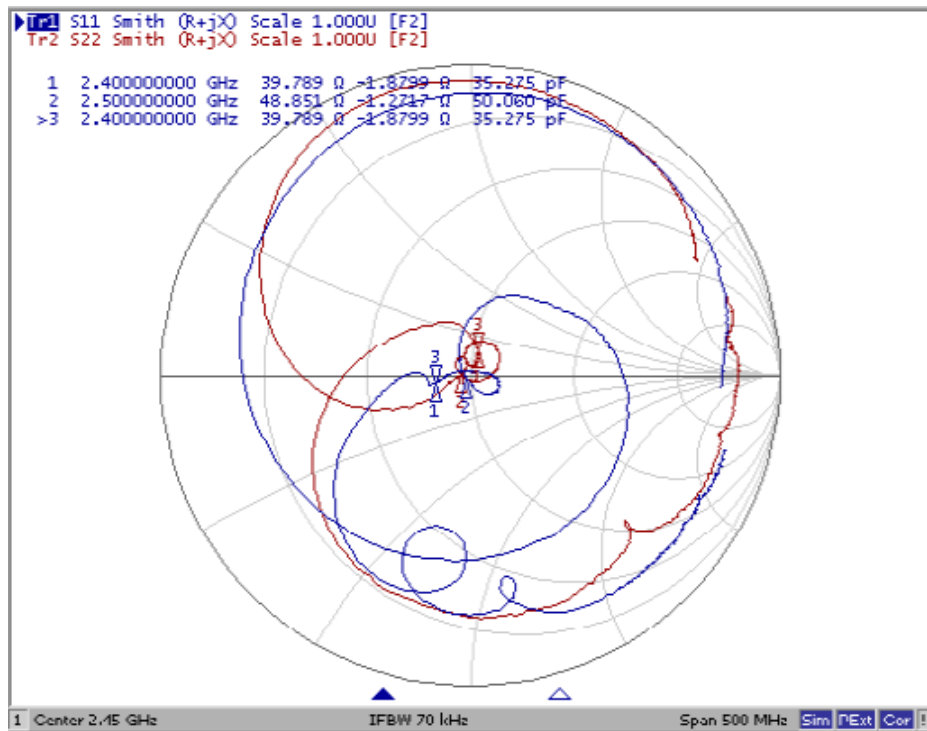
SAW Filter 2450.0MHz
Part No: MP05240

Model: TA1629A
Rev No: 4

3. S11 & S22 VSWR Response (span 300MHz):



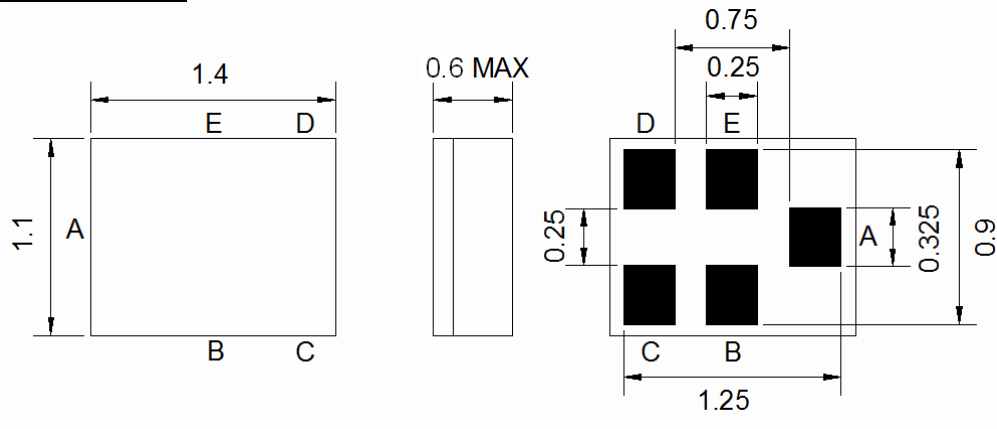
4. S11 & S22 Smith Chart Response (span 500MHz):



SAW Filter 2450.0MHz
Part No: MP05240

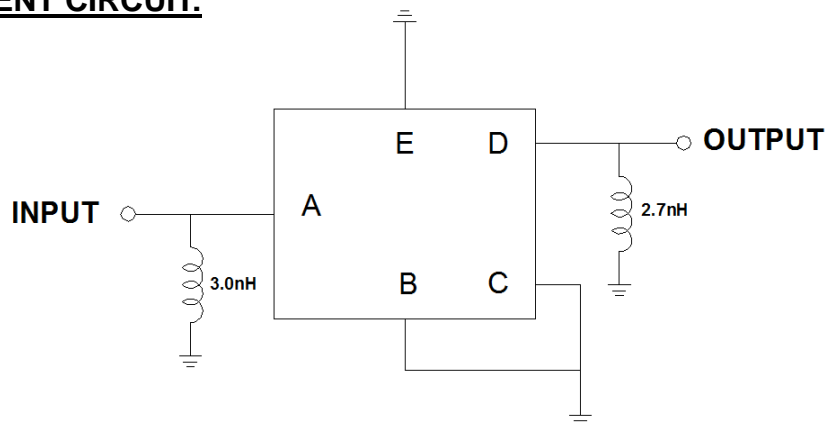
Model: TA1629A
Rev No: 4

D. OUTLINE DRAWING:



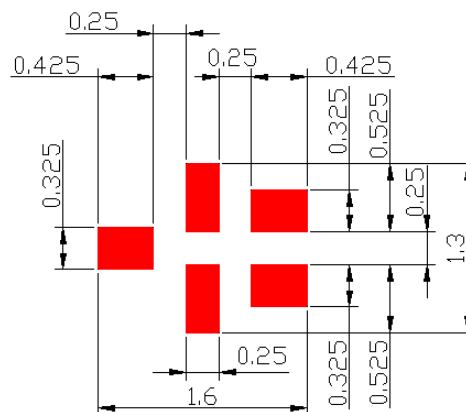
B, C, E: Ground
 A: Input
 D: Output

E. MEASUREMENT CIRCUIT:



Source & Load Impedance: 50Ω

F. FOOTPRINT:



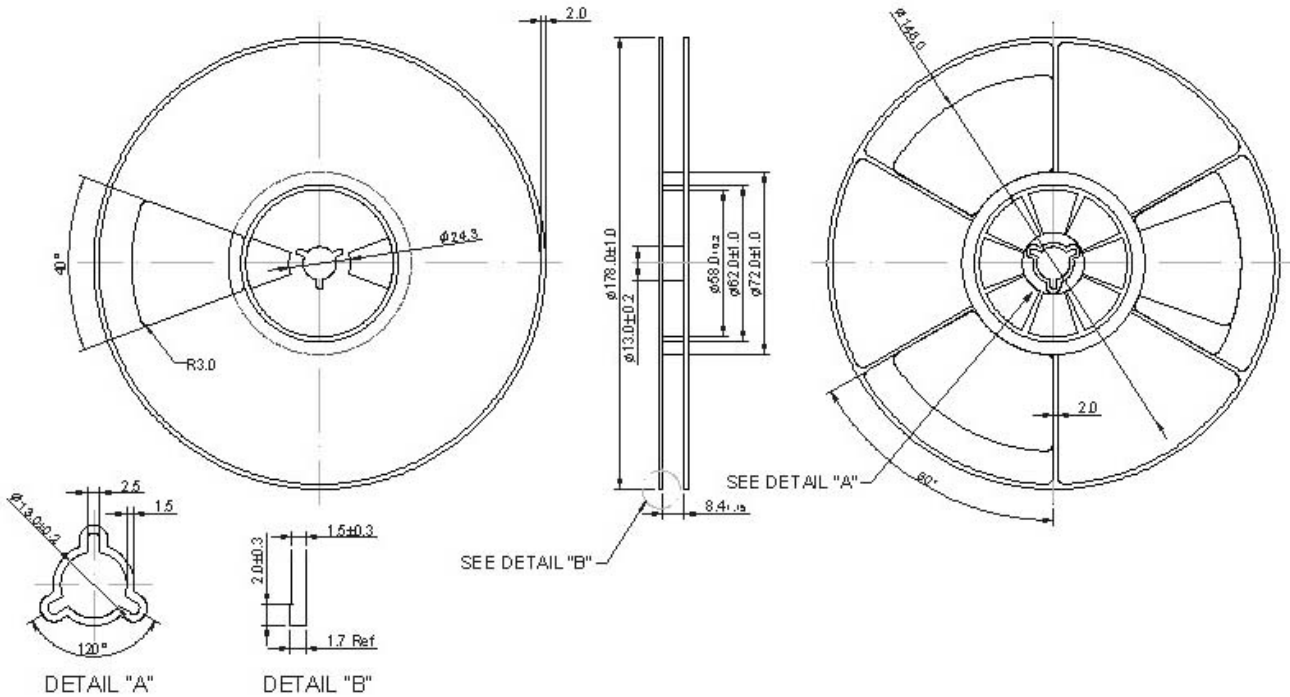
■ : Land Pattern
 Unit : mm

SAW Filter 2450.0MHz
Part No: MP05240

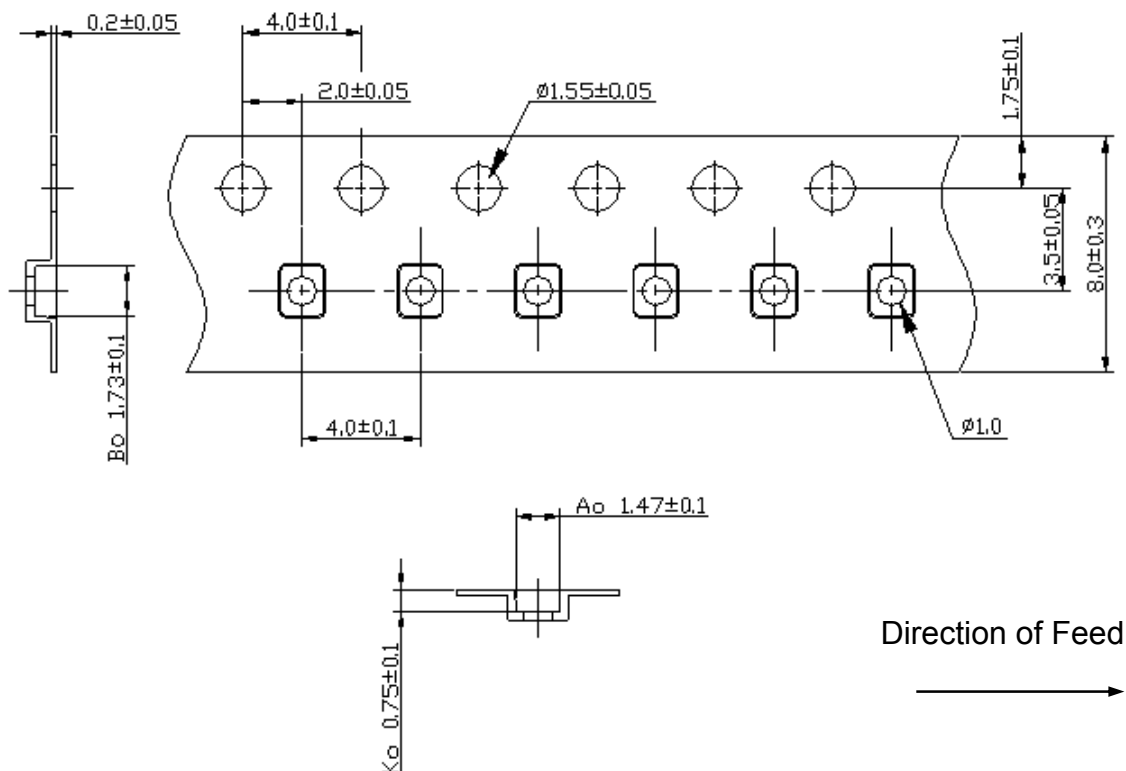
Model: TA1629A
Rev No: 4

G. PACKING:

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



2. Tape Dimension



SAW Filter 2450.0MHz
Part No: MP05240

Model: TA1629A
Rev No: 4

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.

