

SAW Filter 1583.0MHz

Model: TA1785A

Part No: MP06863

Rev No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

1. Input Power Level: 15dBm
2. DC Voltage: 0V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

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

Item	Unit	25 ± 2°C	Typ.	-40 ~ +85°C
Center Frequency Fc	MHz	-	1583	-
Insertion Loss (1559.1 ~ 1563.1MHz) IL	dB	1.9max	1.8	2.1max
Insertion Loss (1573.42 ~ 1577.42MHz) IL	dB	1.5max	1.4	1.6max
Insertion Loss (1597.55 ~ 1605.89MHz) IL	dB	1.8max	1.7	2.1max
VSWR (1559.1 ~ 1563.1MHz)		1.5max	1.4	1.8max
VSWR (1573.42~1577.42MHz)		1.7max	1.6	2.3max
VSWR (1597.55~1605.89MHz)		1.7max	1.6	1.9max
Amplitude ripple				
(1559.1 ~ 1563.1MHz)	dB	0.6max	0.5	0.8max
(1573.42 ~ 1577.42MHz)	dB	0.3max	0.2	0.5max
(1597.55 ~ 1605.89MHz)	dB	0.5max	0.3	0.6max
Attenuation				
100 ~ 824MHz	dB	44min	46	40min
824 ~ 925MHz	dB	44min	46	40min
1427 ~ 1463MHz	dB	43min	45	40min
1710 ~ 1785MHz	dB	38min	40	36min
1850 ~ 1980MHz	dB	38min	40	36min
2400 ~ 2570MHz	dB	38min	40	36min
2570 ~ 3000MHz	dB	35min	40	33min
Package size	mm	SMD3030		

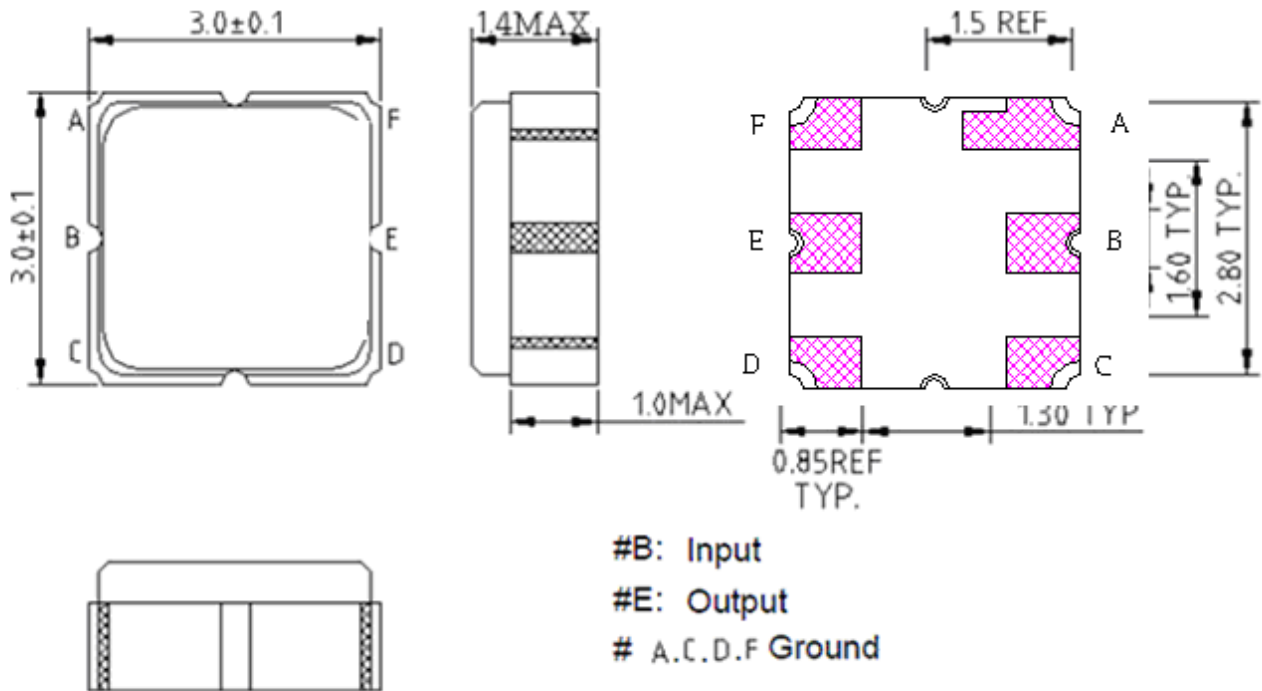
SAW Filter 1583.0MHz

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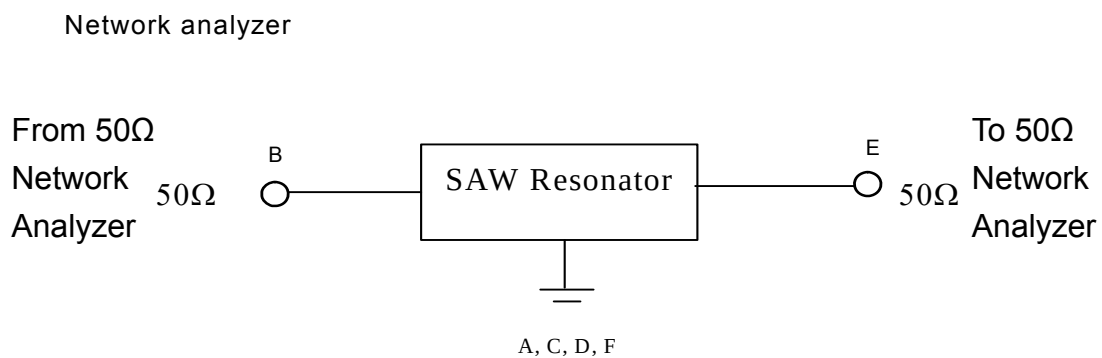
C. OUTLINE DRAWING:



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

Unit: mm

D. TEST CIRCUIT:



SAW Filter 1583.0MHz

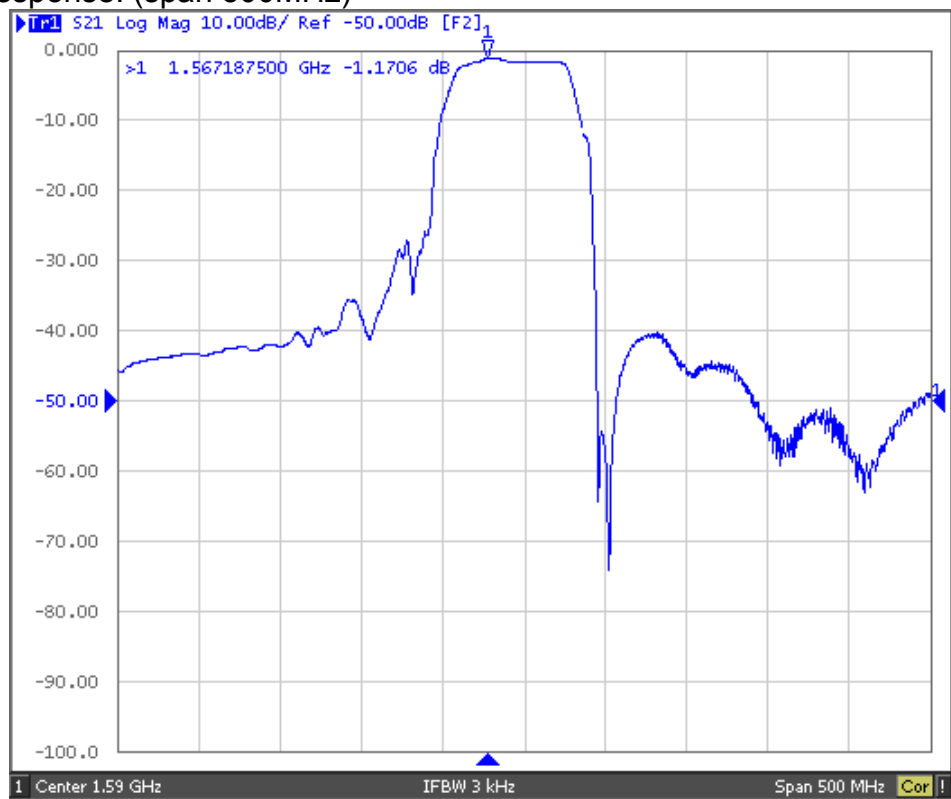
Model: TA1785A

Part No: MP06863

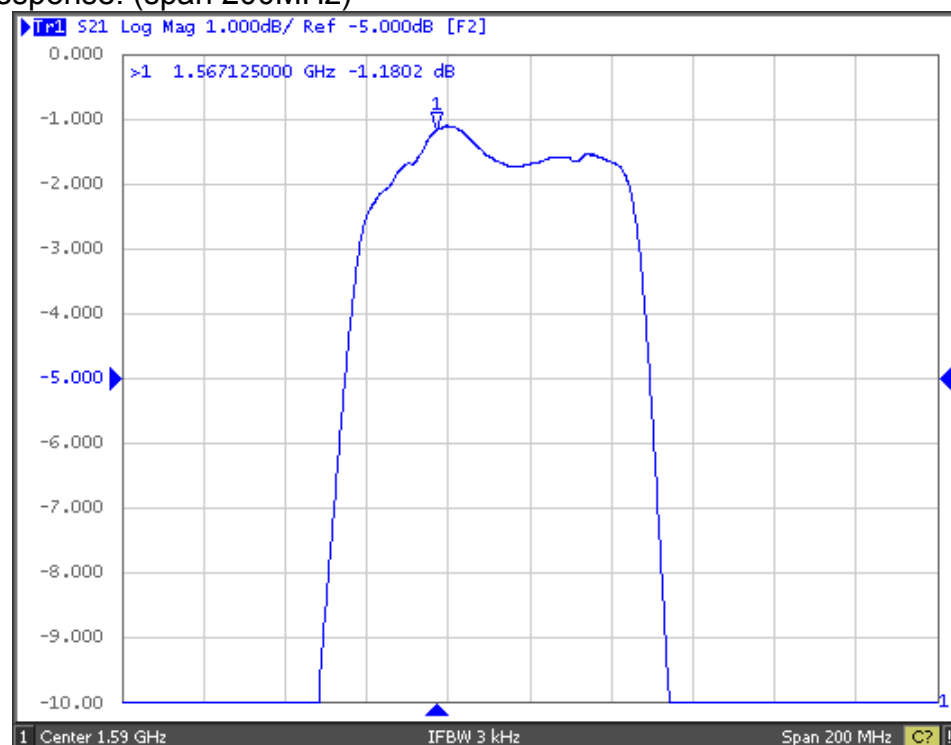
Rev No: 1

E. FREQUENCY CHARACTERISTICS:

1. S21 response: (span 500MHz)



2. S21 response: (span 200MHz)



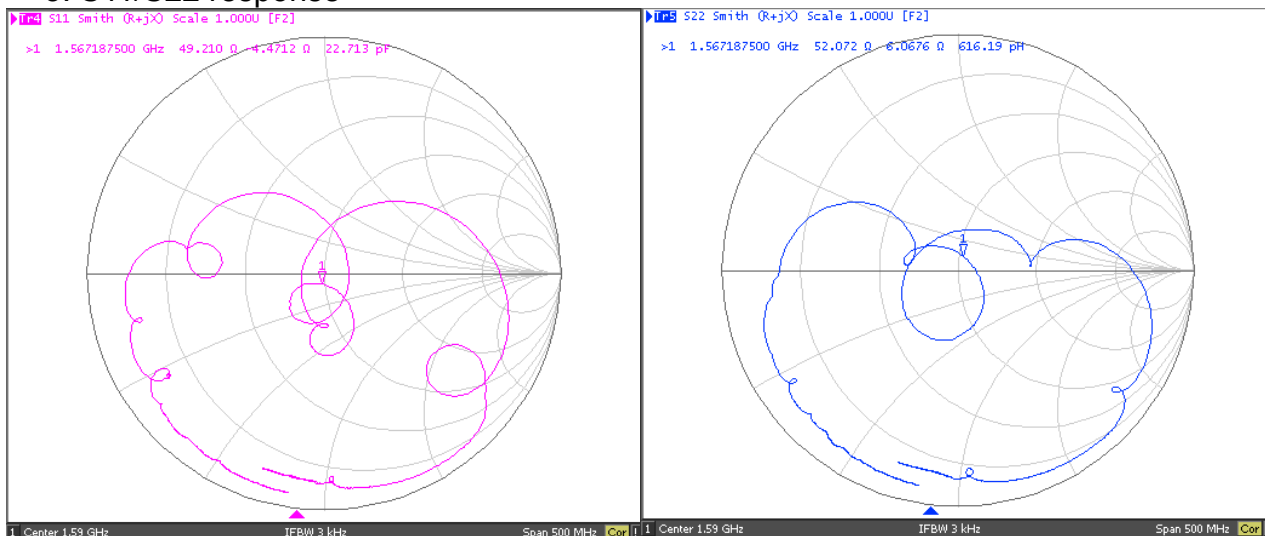
SAW Filter 1583.0MHz

Model: TA1785A

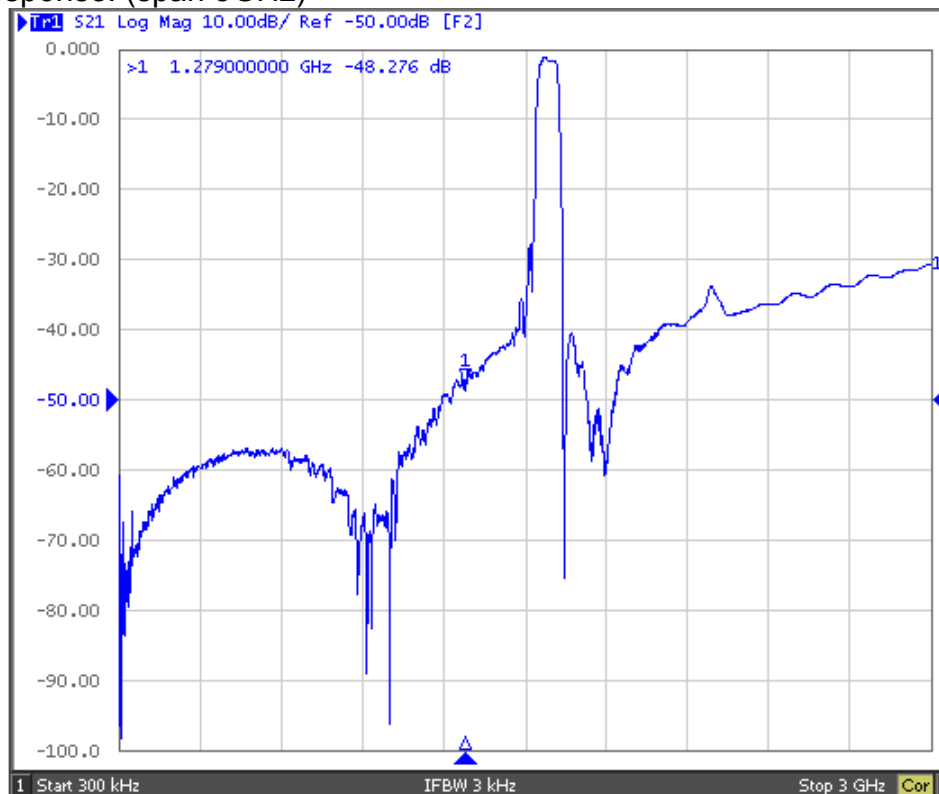
Part No: MP06863

Rev No: 1

3. S11/S22 response



4. S21 response: (span 3GHz)



SAW Filter 1583.0MHz

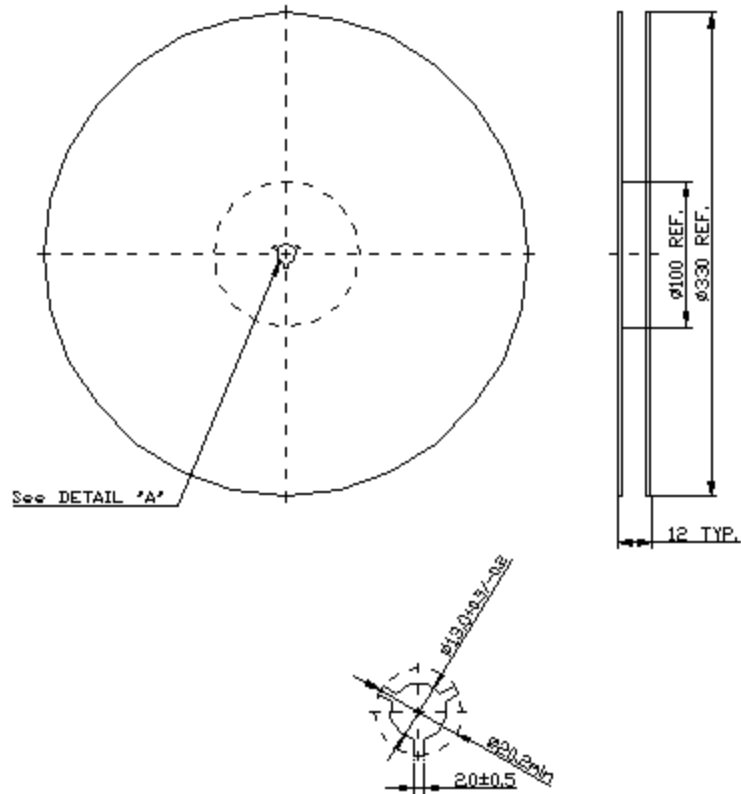
Model: TA1785A

Part No: MP06863

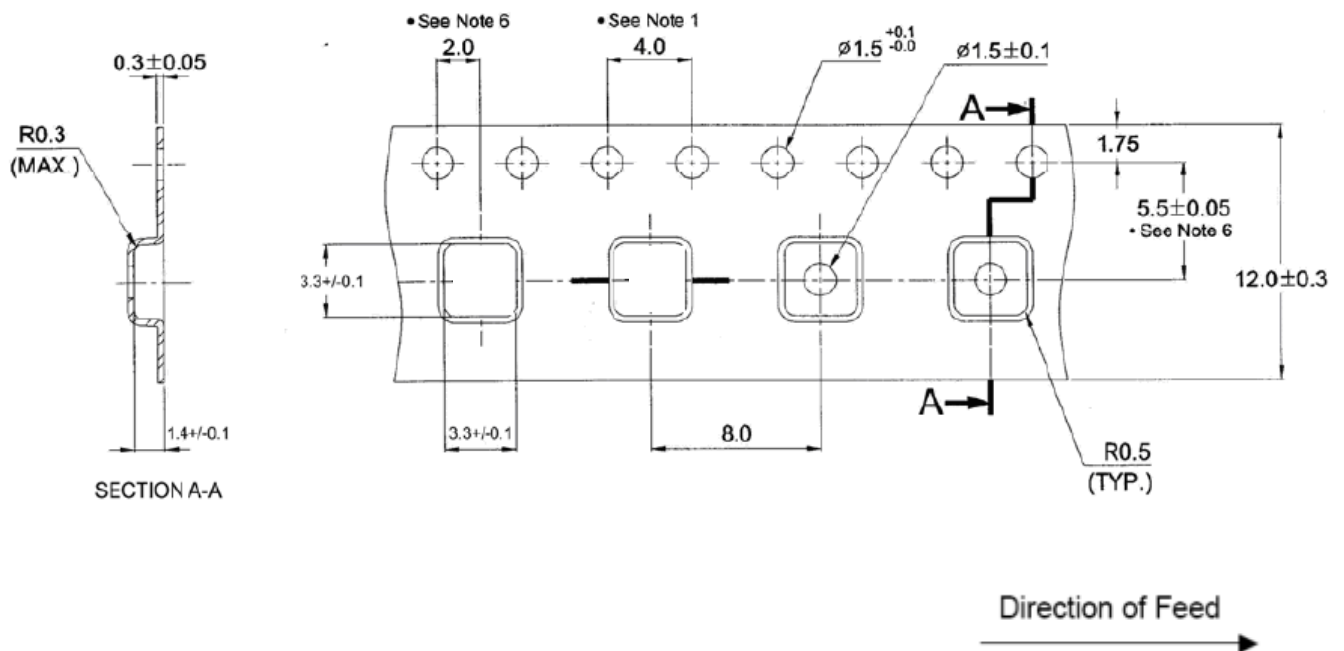
Rev No: 1

F. PACKING:

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



2. Tape Dimension



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G. RECOMMENDED REFLOW PROFILE:

