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Product Specifications Approval Sheet

Product Name: SAW Filter 1582.4MHz (BW 46.61MHz) SMD 3.0x3.0 mm

TST Parts No.: TA1658D (This part is compliant with AEC-Q200)

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Michael Yang *Michael*

Approval by: _____ Andy Yu *Andy Yu*

Date: _____ 2020/05/20

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes

SAW Filter 1582.4MHz (BW 46.61MHz) SMD 3.0x3.0 mm

MODEL NO.:TA1658D

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 15 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +105℃
4. Storage Temperature: -40℃ to +105℃
5. Moisture Sensitivity Level: Level 1(MSL1)



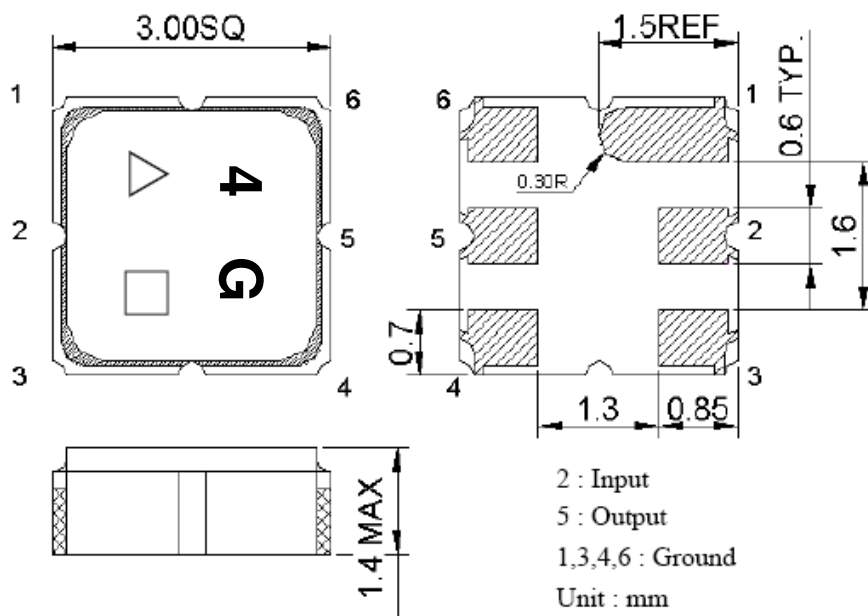
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	-40℃ to +105℃
Center Frequency Fc	MHz	-	1582.4	-
Insertion Loss IL				
1)1574.42 ~ 1576.42 MHz	dB		1.2	2.0
2)1559.05 ~ 1563.15 MHz			1.7	2.2
3)1573.37 ~ 1577.47 MHz			1.3	2.0
4)1597.78 ~ 1605.66 MHz			1.5	4.0
GD Ripple (1597.55~1605.89 MHz)	dB	-	12	25
VSWR		-	-	-
1)1574.42 ~ 1576.42 MHz	-	-	1.6	2.0
2)1559.05 ~ 1563.15 MHz			1.3	2.0
3)1573.37 ~ 1577.47 MHz			1.7	2.0
4)1597.78 ~ 1605.66 MHz			1.4	2.0
Attenuation				
10 ~ 824 MHz	dB	30	38	-
824 ~ 925 MHz	dB	30	37	-
1427 ~ 1453 MHz	dB	40	47	-
1625 MHz	dB	25	42	-
1710 ~ 1785 MHz	dB	37	45	-
1850 ~ 1910 MHz	dB	38	47	-
1920 ~ 1980 MHz	dB	39	49	-
2400 ~ 2500 MHz	dB	35	45	-

2500 ~ 2570	MHz	dB	37	45	-
2600 ~ 3000	MHz	dB	20	41	-

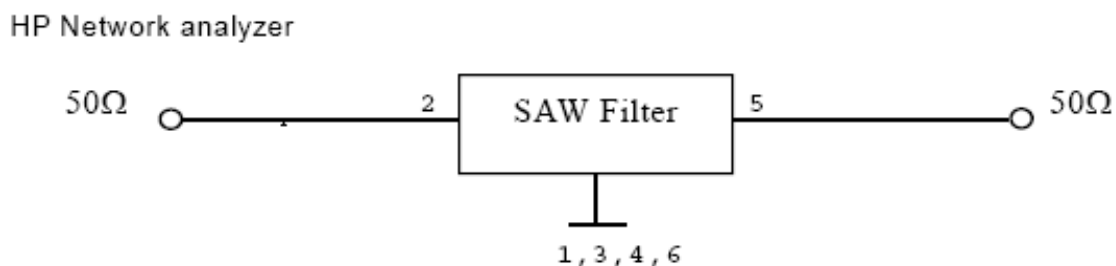
C.OUTLINE DRAWING:



△ : Year Code (2009->9, 2010->0,..., 2018->8)

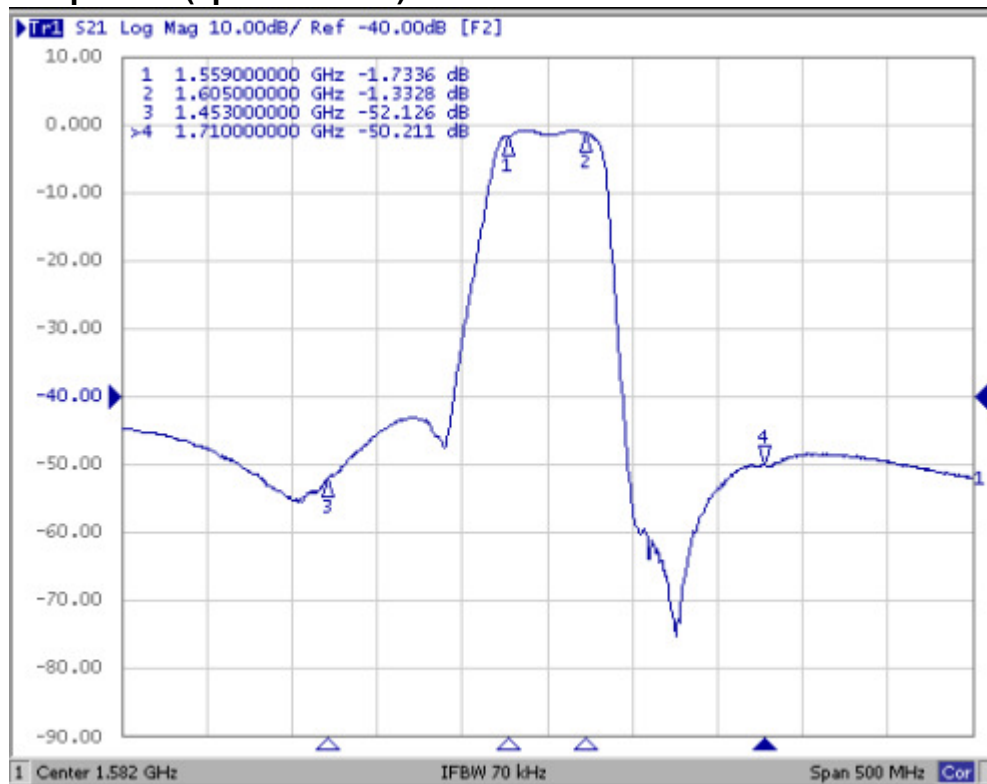
□ : Date Code (Follow the table from planner each year)

D. MEASUREMENT CIRCUIT:

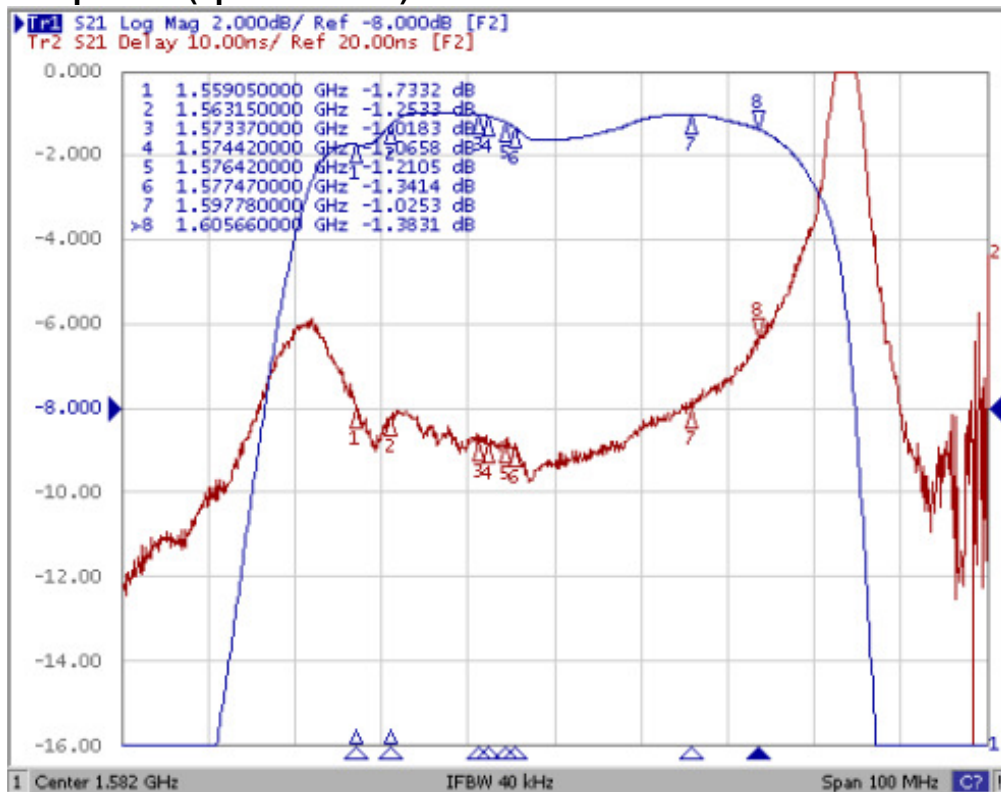


E. Frequency Characteristics:

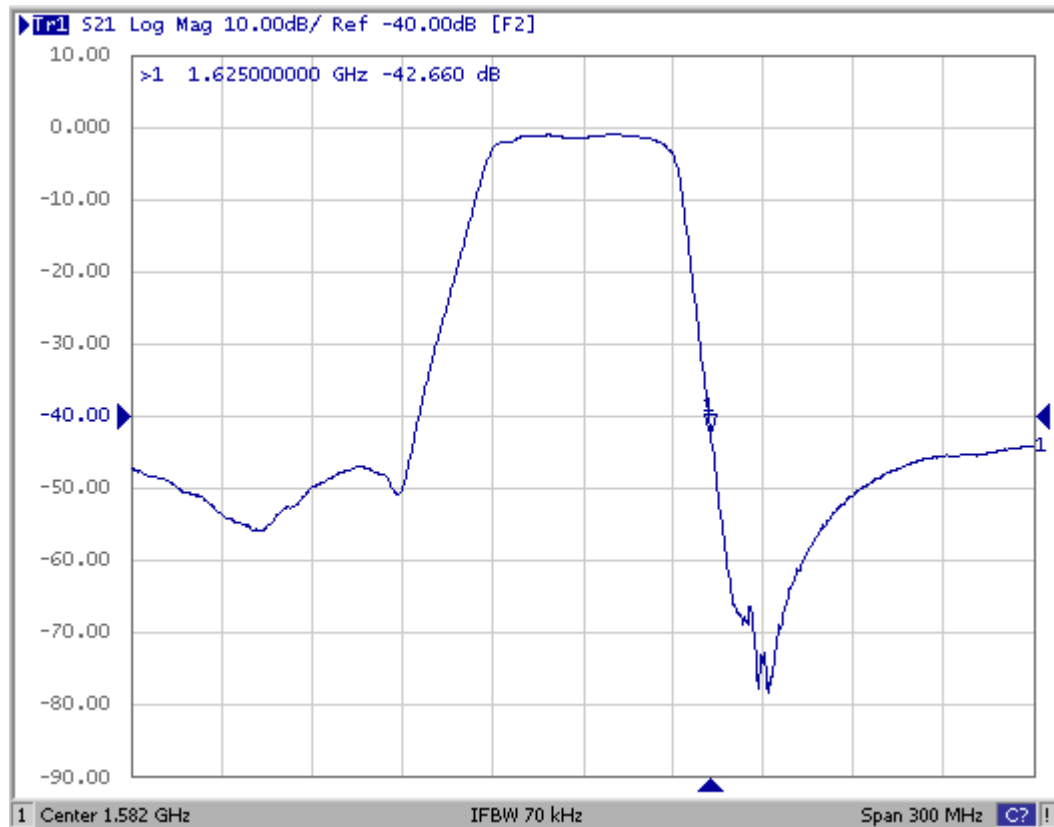
S21 response: (span 500MHz)



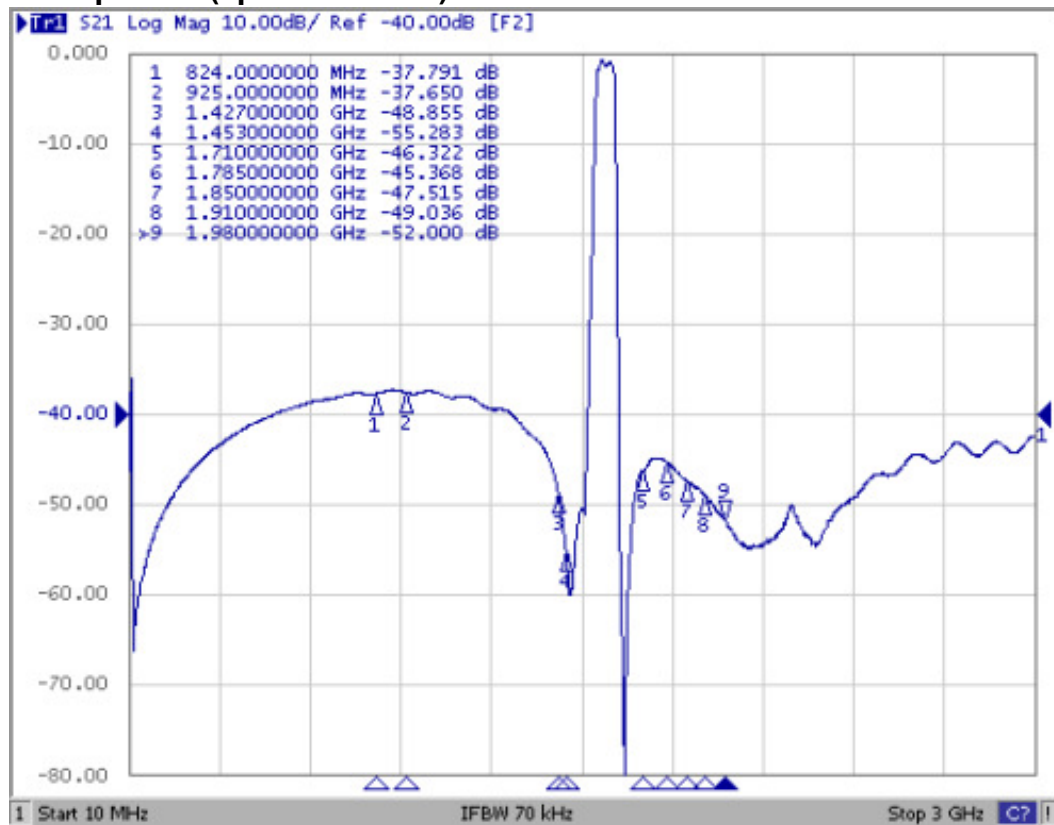
S21 response: (span 100MHz)



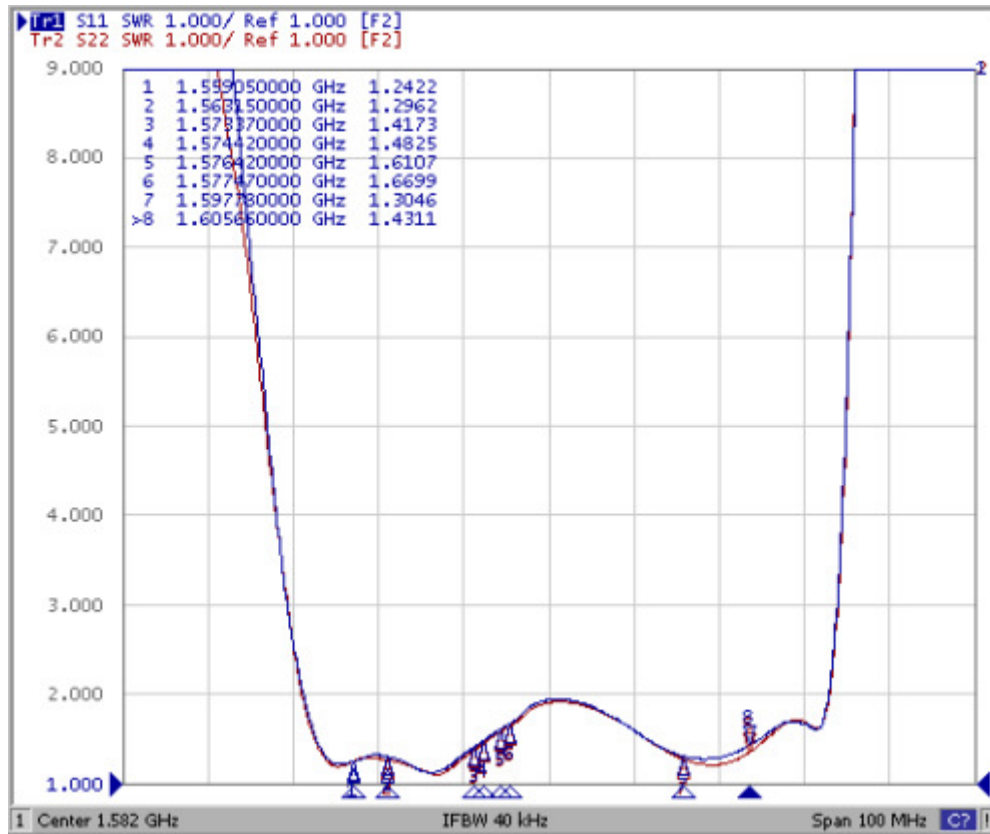
S21 response: (span 300MHz)



Sd21 response: (span 3000MHz)



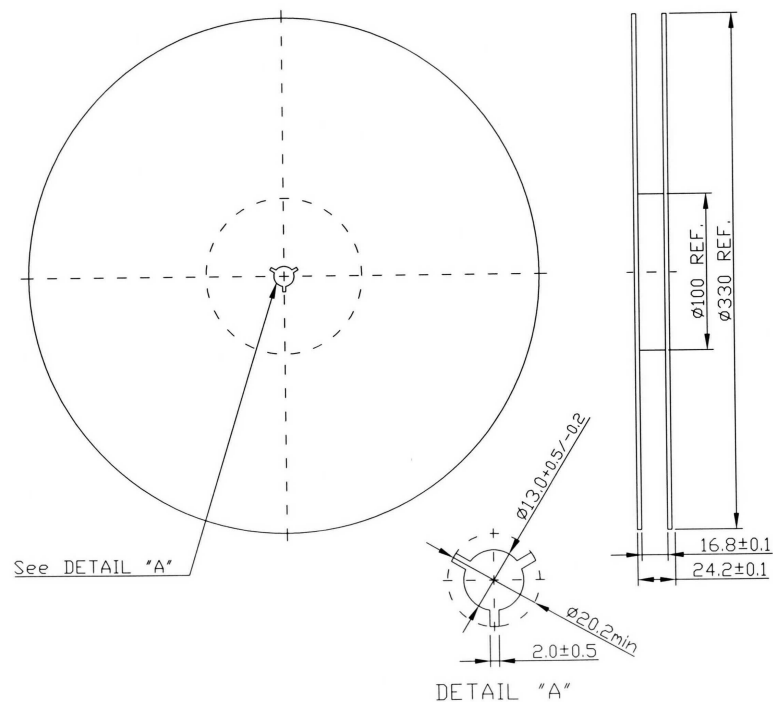
S11&S22 VSWR: (span 100MHz)



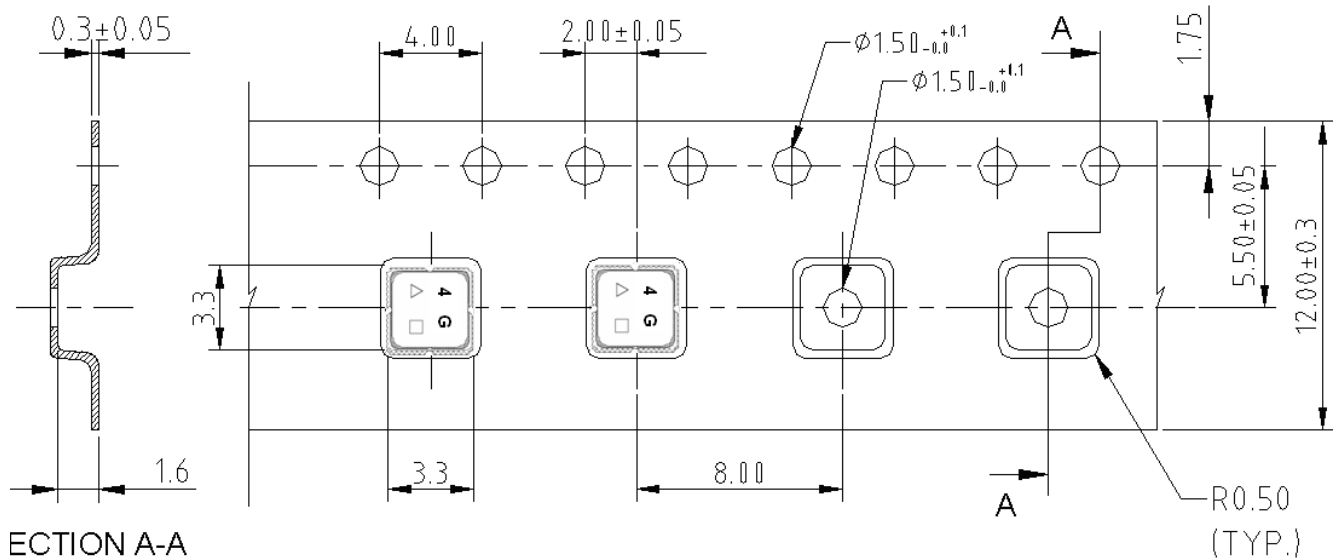
F. PACKING:

1. REEL DIMENSION

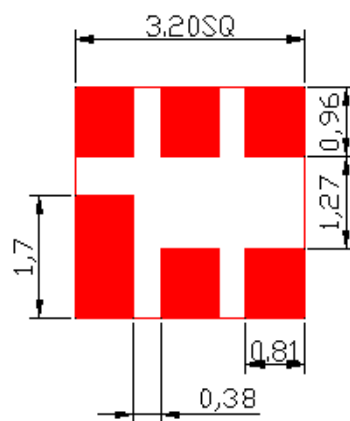
(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



G. PCB Footprint:



H. STORAGE CONDITIONS:

- 1) Store in manufacturer's package or tightly reclosed box with the following conditions.
[Temperature: -10...+40 °C, Humidity: 30...85%RH] Examine solderability before using this component, since more than 6 months storage might be a cause of degradation of solderability. Notice that long-term storage might be a cause of the discoloration.
- 2) To keep solderability of outer-electrode, do not store in the following environments.
 - Ambient air containing corrosive gas (C12, H2S, NH3, SOX, NOX, etc.)
 - Ambient air containing volatile or combustible gas
 - In dusty place
 - In the places where the water splashes and it tends to condense for high humid
 - In direct sunlight
 - In the places under the strong influence of static electricity or electric field strengthContact the manufacturer before using the component in any of the above environments.
- 3) Do not open minimum packing unit until usage.

I. RECOMMENDED REFLOW PROFILE:

