



TAI-SAW TECHNOLOGY CO., LTD.

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Product Specifications Approval Sheet

Product Name: Dielectric Filter 5962.5MHz SMD 6.6x3.15 mm (BW=475 MHz)

TST Parts No.: TR0019A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Hongpu Lin *Hong Pu Lin*

Approved by: _____ Andy Yu *Andy Yu*

Date: _____ 2019/01/23

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.



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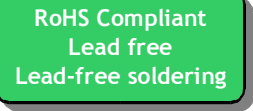
Dielectric filter 5962.5 MHz

MODEL NO.: TR0019A

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 1 W
2. DC Voltage : 0 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature:-40°C to +85°C
5. Moisture Sensitivity Level: Level 2a (MSL 2a)



Electrostatic Sensitive Device (ESD)

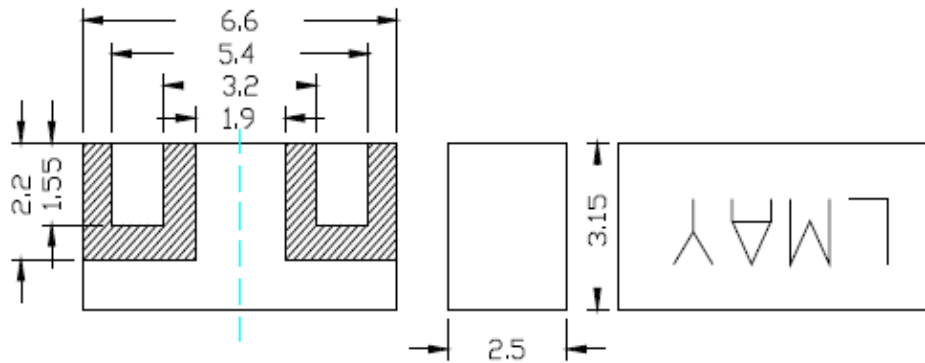
B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single ended) : $Z_s = 50 \Omega$

Terminating load impedance (single ended) : $Z_L = 50 \Omega$

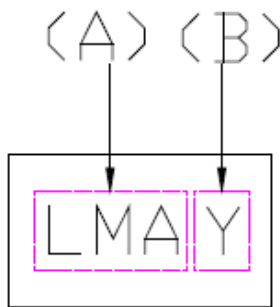
NO.	ITEM	SPECIFICATION		
		Min	Typ.	Max
1	PSAA BAND INSERTION LOSS		2.0 dB	2.6 dB
2	PASS BAND RIPPLE		0.85 dB	1.0 dB
3	PASS BAND RETURN LOSS	10 dB	12 dB	
4	STOP-BAND ATTENUATION	at 5150 MHz	15 dB	20 dB
		at 5250 MHz	15 dB	20 dB
		at 5350 MHz	15 dB	20 dB
		at 5460 MHz	15 dB	17 dB
		at 6525 MHz	12 dB	14 dB
Item NO.4 specifies the absolute value of attenuation.				

C. OUTLINE DRAWING:
DIMENSION



LMA : Product name(J5962)
Y : Year/Month (2017/11)
Tolerance:±0.2mm

MARKING

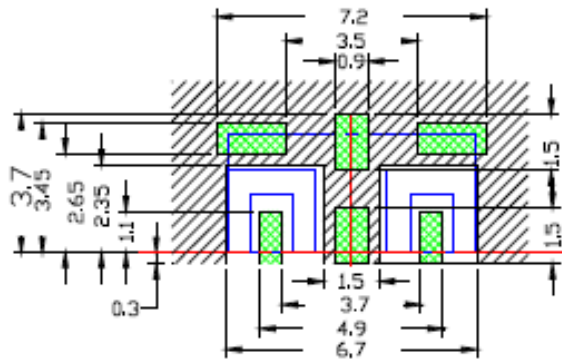


(A) Product name : LMA for 5962
(B) Year/Month : Please refer to the Table-1

(Table-1)

Year	Month	Code	Year	Month	Code	Year	Month	Code	Year	Month	Code
2012 2016 2020 2024	1	A	2013 2017 2021 2025	1	N	2014 2018 2022 2026	1	A.	2015 2019 2023 2027	1	N.
	2	B		2	P		2	B.		2	P.
	3	C		3	Q		3	C.		3	Q.
	4	D		4	R		4	D.		4	R.
	5	E		5	S		5	E.		5	S.
	6	F		6	T		6	F.		6	T.
	7	G		7	U		7	G.		7	U.
	8	H		8	V		8	H.		8	V.
	9	J		9	W		9	J.		9	W.
	10	K		10	X		10	K.		10	X.
	11	L		11	Y		11	L.		11	Y.
	12	M		12	Z		12	M.		12	Z.

D. PCB Footprint



Tolerance: ± 0.15



Conductive Material:
Ground, connected to
lower ground diameter of
0.3mm and max. distance
of 1.0mm



I/O Pads and LAND
I/O must be connected to lines with
 $50\ \Omega$ impedance.
in the application a
termination of $50\ \Omega$
must be realized.

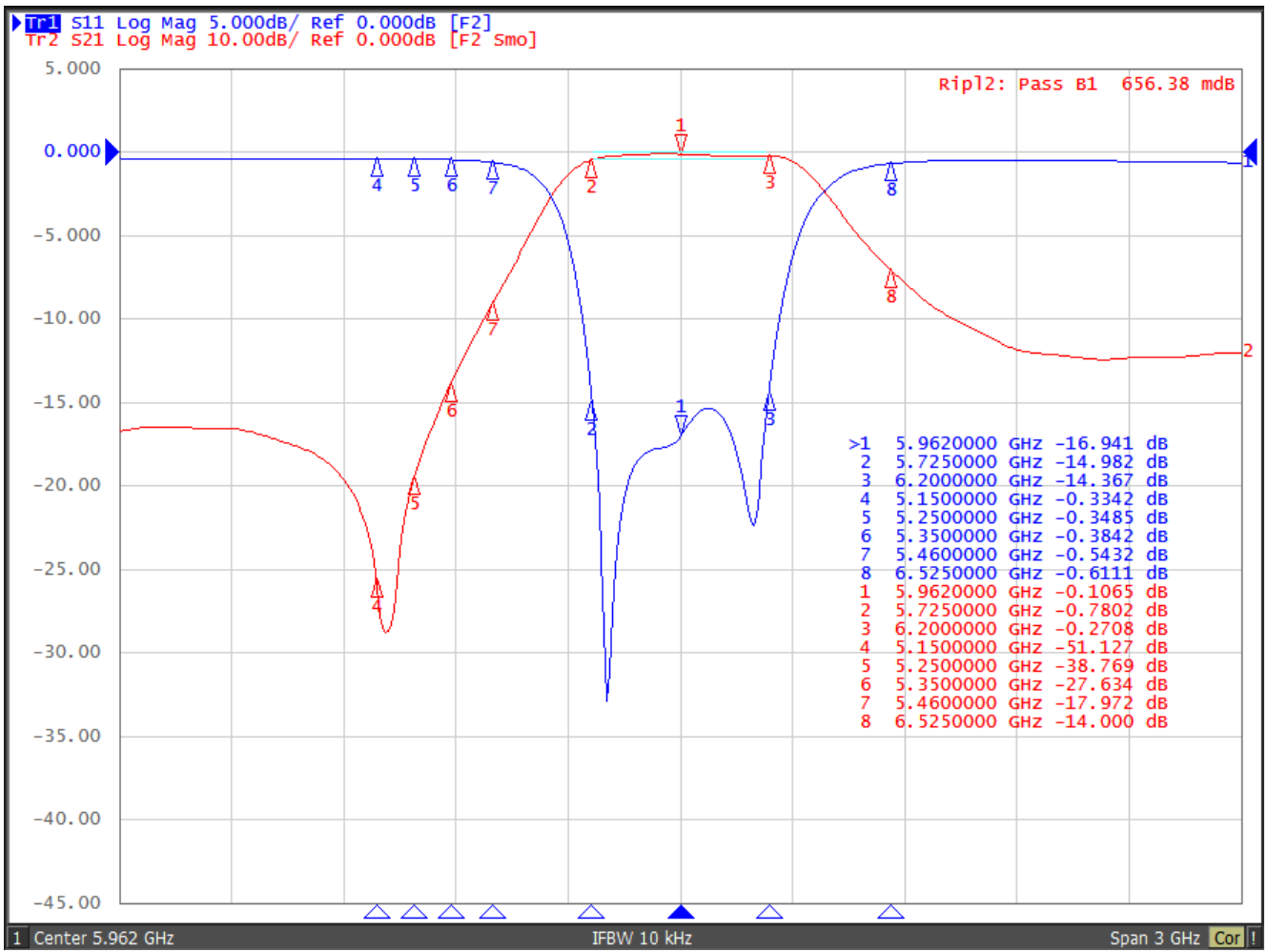


Solder Resist Without
Pattern



Filter
outline

E. Frequency Characteristics :

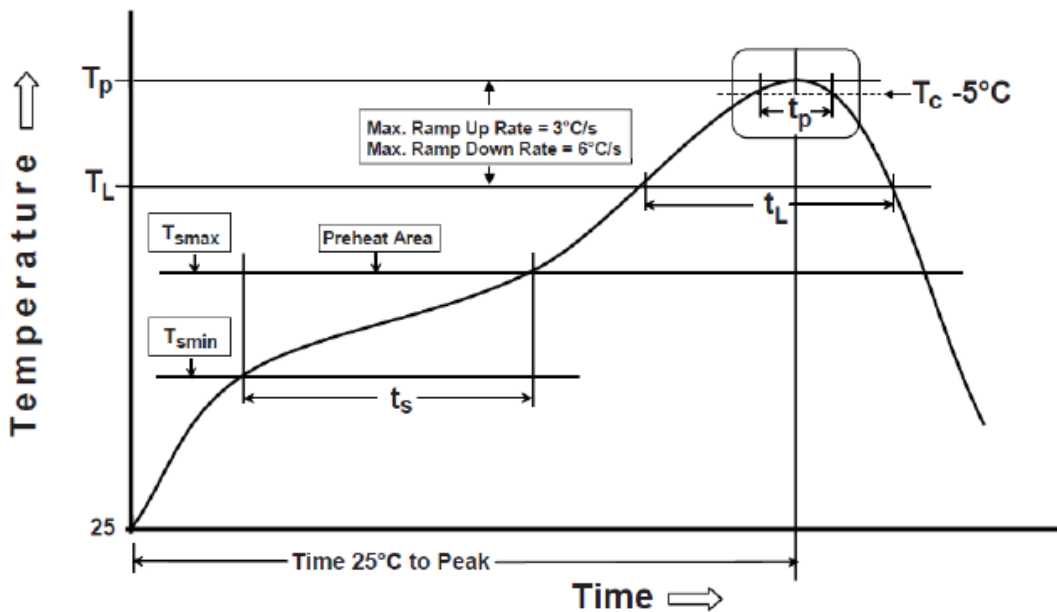


F. Recommended Reflow Profile:

Phase	Profile features	Pb-Free Assembly (SnAgCu)
PREHEAT	-Temperature Min(Tsmin) -Temperature Max(Tsmax) -Time(ts) form (Tsmin to Tsmax)	150°C 200°C 60-120 seconds
RAMP-UP	Avg. Ramp-up Rate (Tsmax to TP)	3°C/second(max)
REFLOW	-Temperature(TL) -Total Time above TL (t L)	217°C 30-100 seconds
PEAK	-Temperature(TP) -Time(tp)	260°C 3 second
RAMP-DOWN	Rate	6°C / second max.
Time from 25°C to Peak Temperature		8 minutes max.
Composition of solder paste		96.5Sn/3Ag/0.5Cu
Solder Paste Model		SHENMAO PF606-P26

Note : All the temperature measure point is on top surface of the component, if temperature over recommend, it will make component surface peeling or damage.

The graphic shows temperature profile for component assembly process in reflow ovens



Soldering With Iron:

Soldering condition : Soldering iron temperature 270 ± 10 °C.

Apply preheating at 120°C for 2-3 minutes. Finish soldering for each terminal within 3 seconds, if soldering iron over temperature 270 ± 10 °C or 3 seconds, it will make component surface peeling or damage. Soldering iron can not leakage of electricity.