SAW Filter 1585.655 MHz (BW 40.47Hz) SMD 1.1x0.9x0.5mm

MODEL NO.:TA2250A REV. NO.:6.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +105℃
5. Moisture Sensitivity Level: Level 3(MSL3)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice (**ESD**)

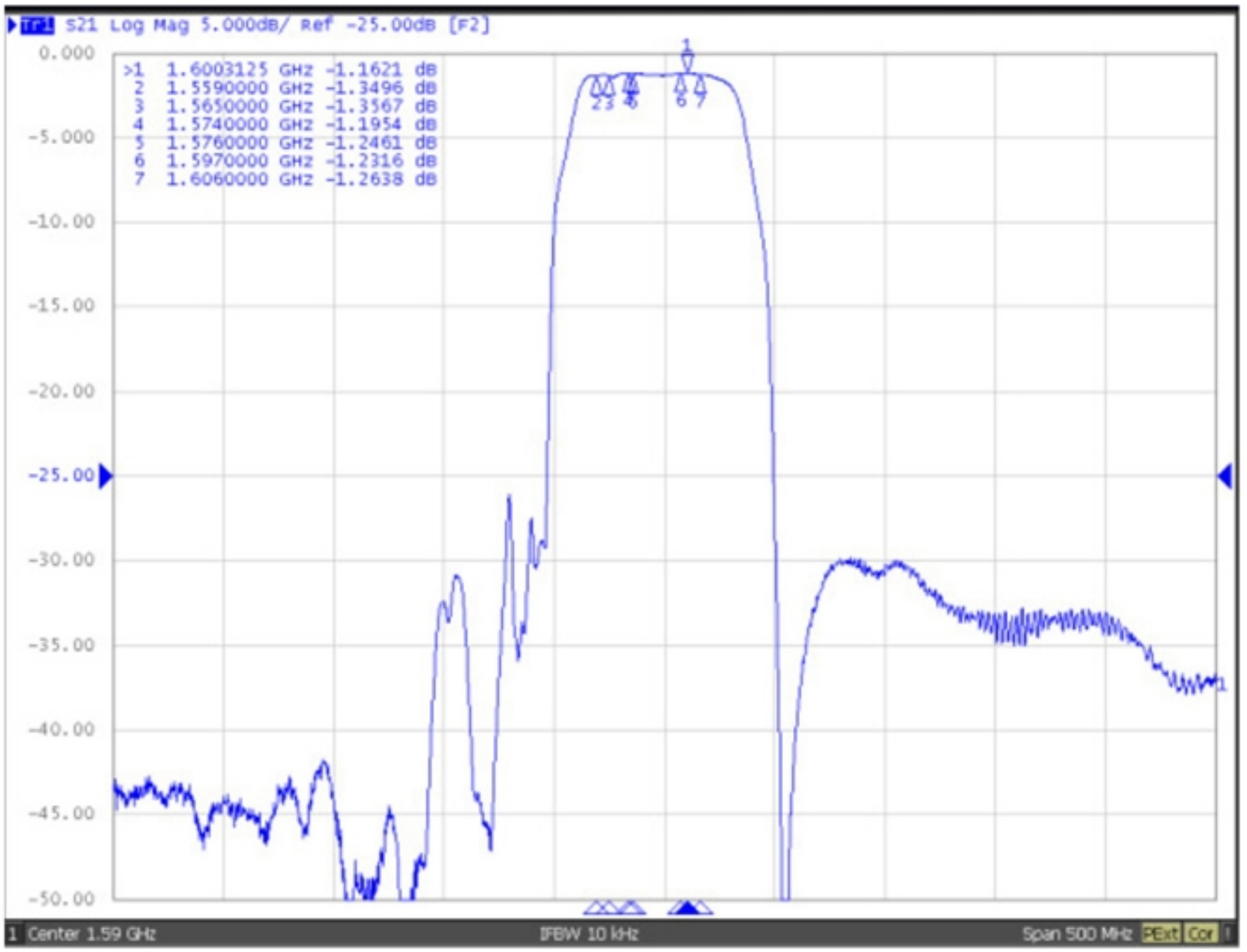
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max. -40℃ to +85℃	Max. -40℃ to +105℃
Center Frequency Fc	MHz	-	1585.655	-	-
Insertion Loss (1565.42~1585.42MHz)	dB	-	1.4	1.7	1.7
Insertion Loss (1574.42~1576.42MHz)			1.2	1.3	1.4
Insertion Loss (1597.55~1605.89 MHz)	dB		1.4	1.7	1.7
VSWR (1565.42~1585.42MHz)		-	1.7	1.8	2.0
VSWR (1597.55~1605.89 MHz)		-	1.5	1.8	2.0
Return loss S11(1597.55~1605.89 MHz)	dB		-17	-15	-15
Return loss S22(1597.55~1605.89 MHz)	dB		-17	-15	-15
Amplitude ripple (1565.42~1605.89MHz)	dB	-	0.5	1.0	1.0
Group Delay Variation					
(1565.42~1585.42MHz)	ns		4	5	6
(1574.42~1576.42MHz)	ns		2	4	5
(1597.55~1605.89 MHz)	ns		3	5	8
Attenuation					-
10 ~ 960 MHz	dB	35	40	-	
1427 ~ 1453 MHz	dB	37	42	-	-
1453 ~ 1501 MHz	dB	25	30	-	-
1501 ~ 1525 MHz	dB	21	26	-	-
1626 ~ 1660 MHz	dB	2	5	-	
1710 ~ 1785 MHz	dB	27	32	-	-
1850 ~ 1910 MHz	dB	33	38	-	-
1920 ~ 1980 MHz	dB	33	38	-	-
2110 ~ 2170 MHz	dB	33	38	-	-
2400 ~ 2500 MHz	dB	41	46	-	-
2500 ~ 2570 MHz	dB	39	44	-	-
Temperature coefficient	ppm/℃	-36			

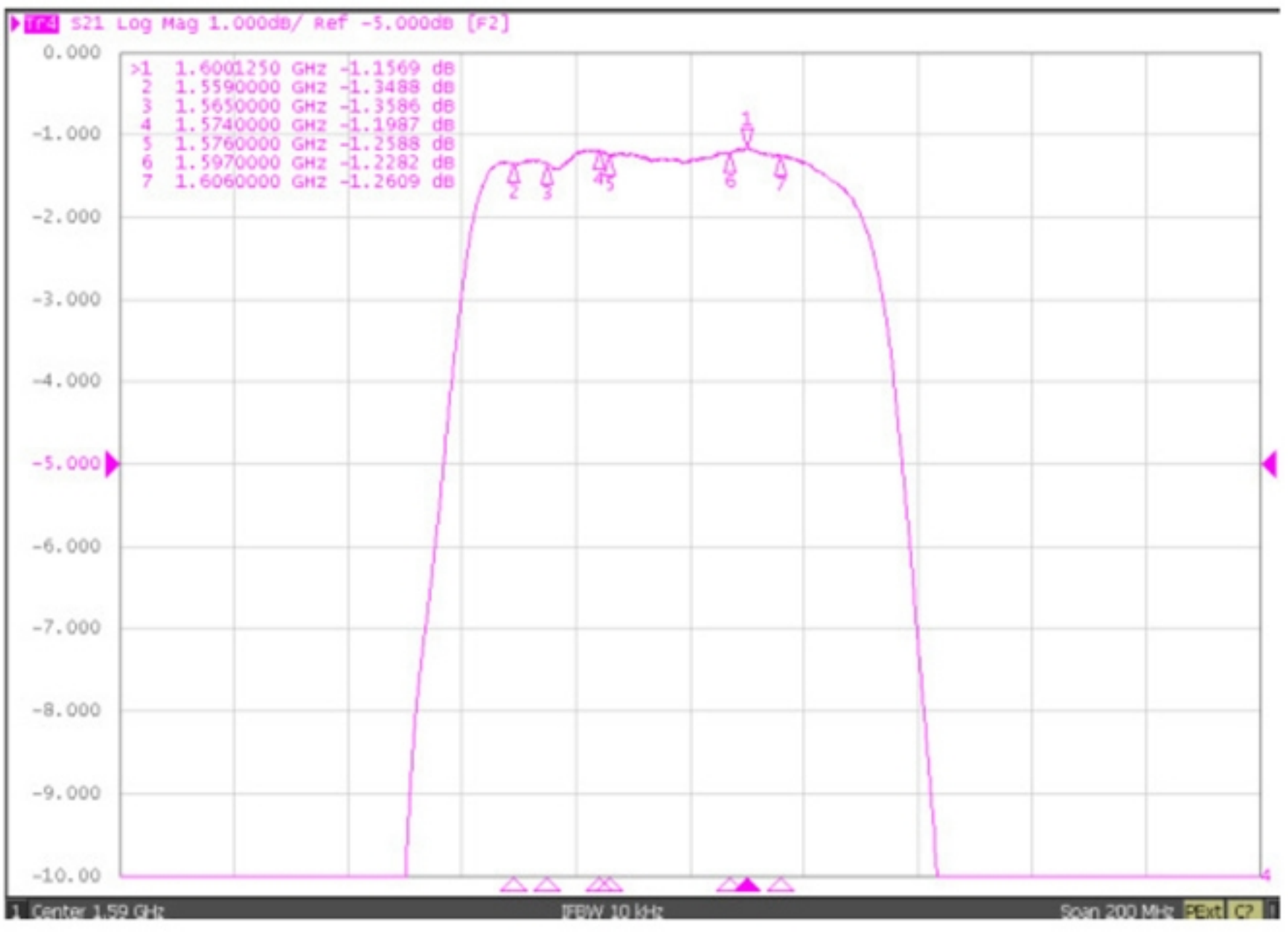
Package size	mm	SMD 1.1x0.9

C.FREQUENCY CHARACTERISTICS:

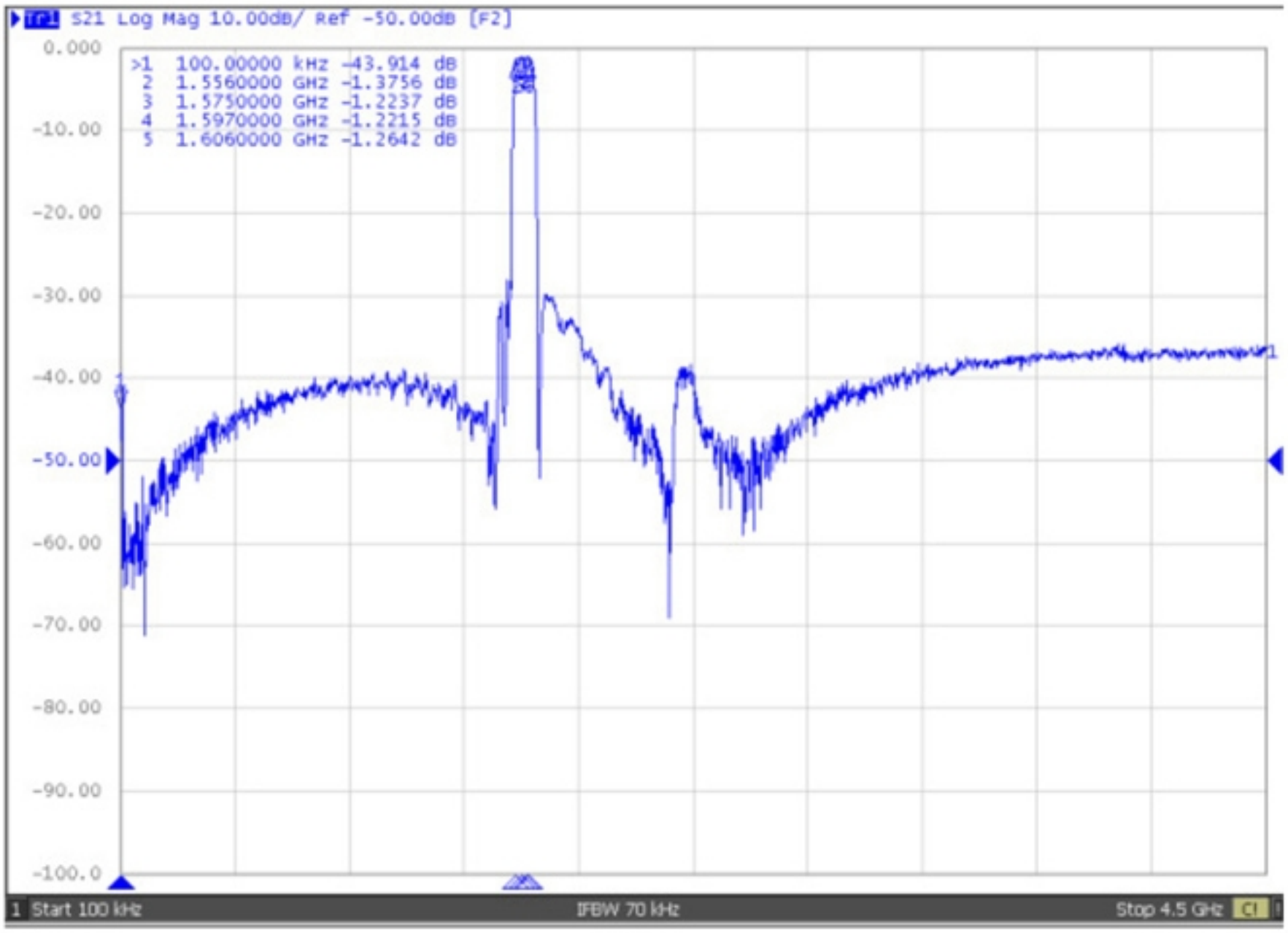
S21 response: (span 500MHz)



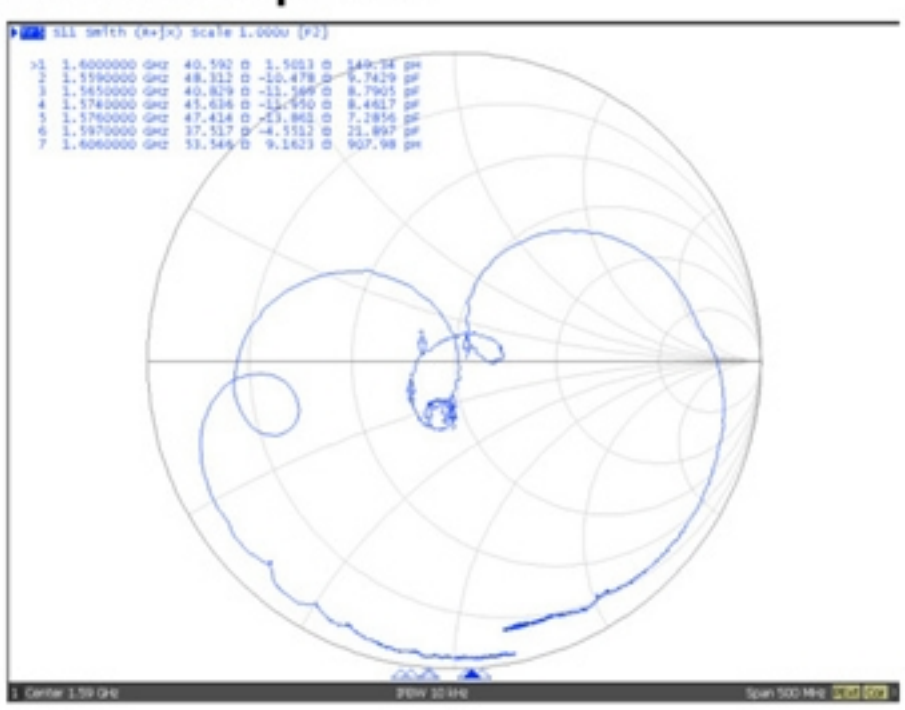
S21 response: (span 200MHz)

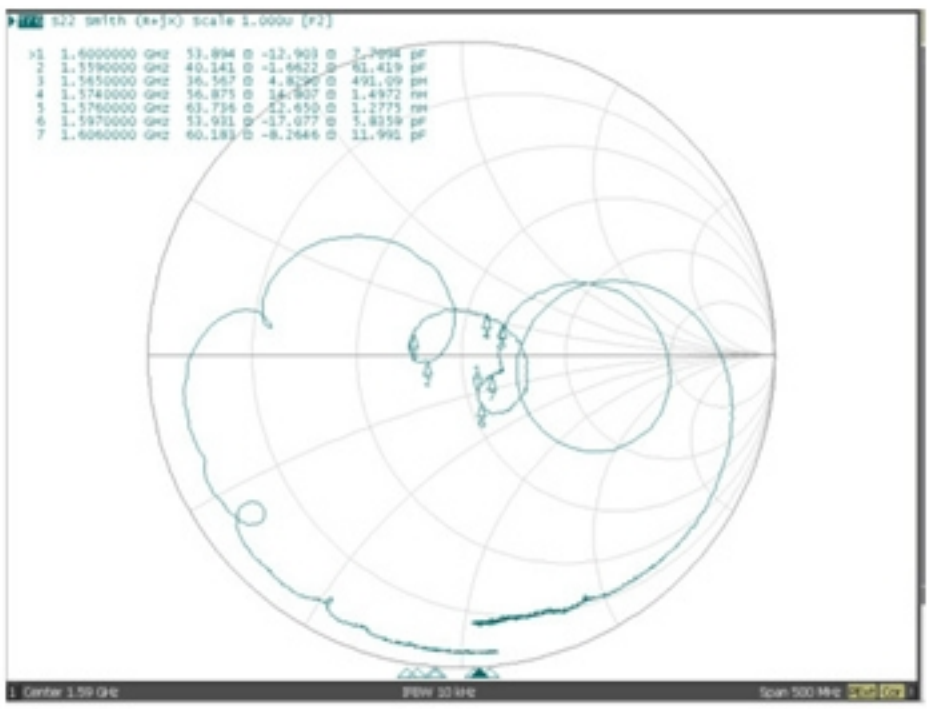


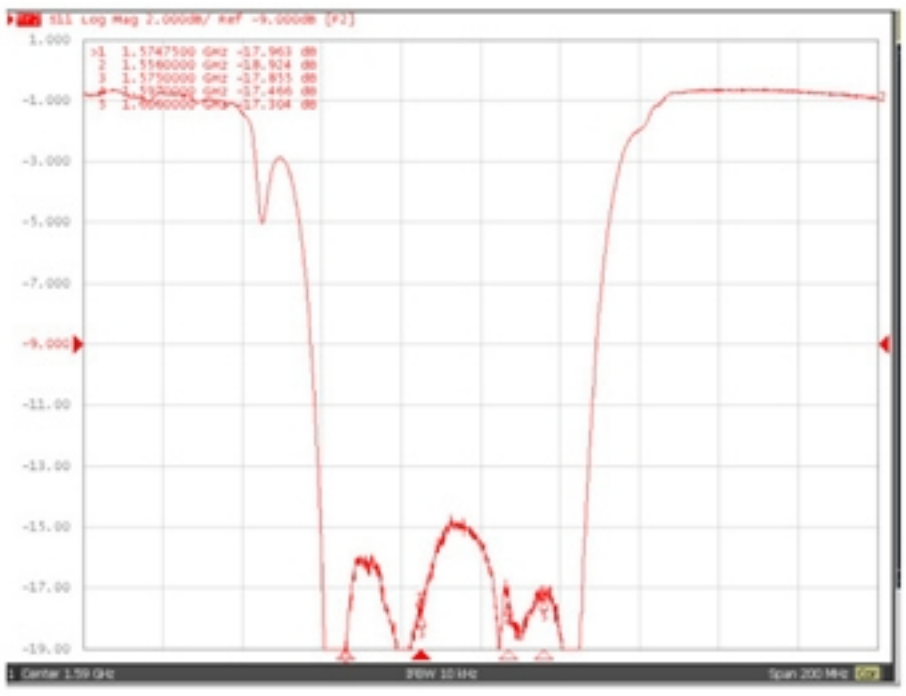
S21 response: (span 4.5GHz)

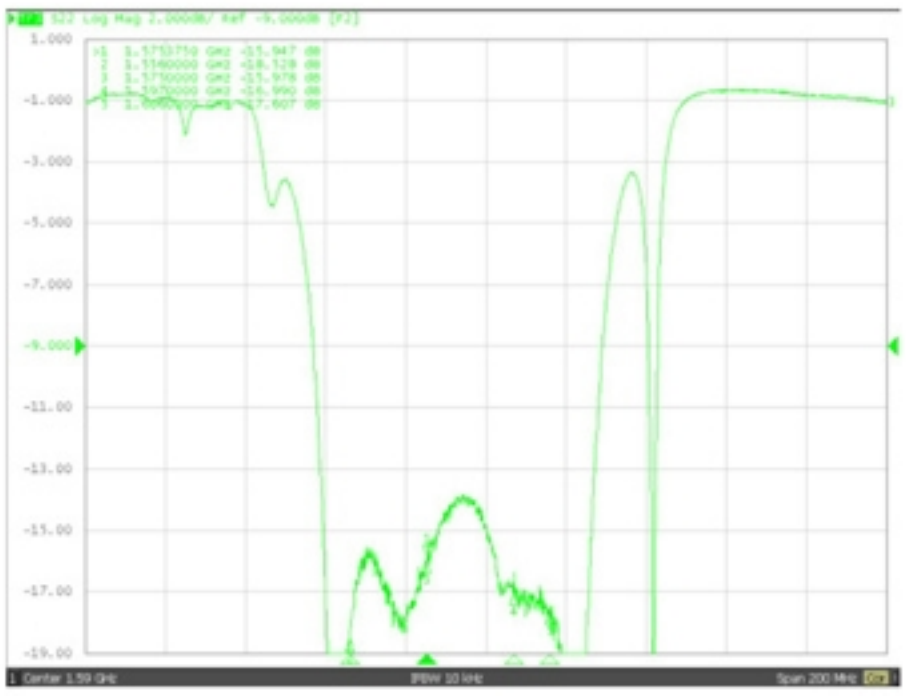


S11/S22 response:

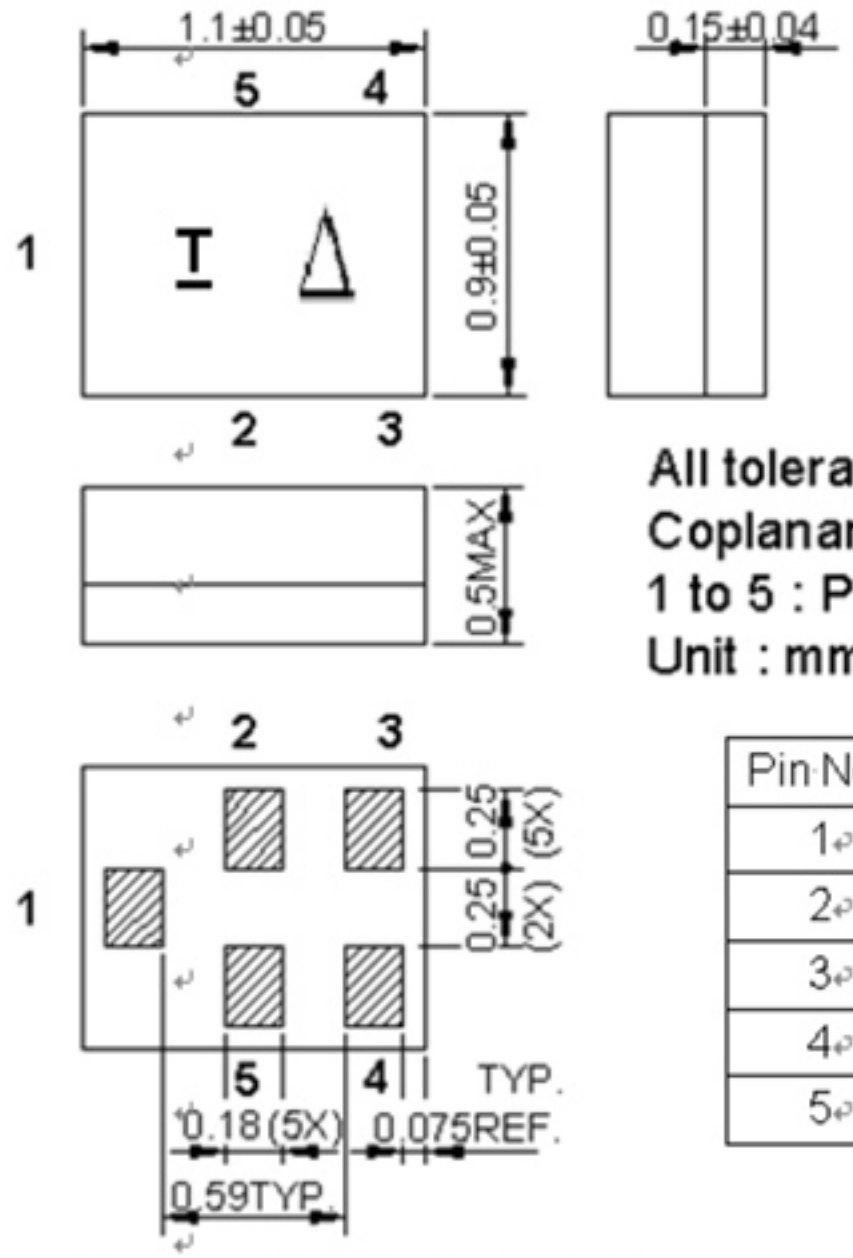








D.OUTLINE DRAWING:



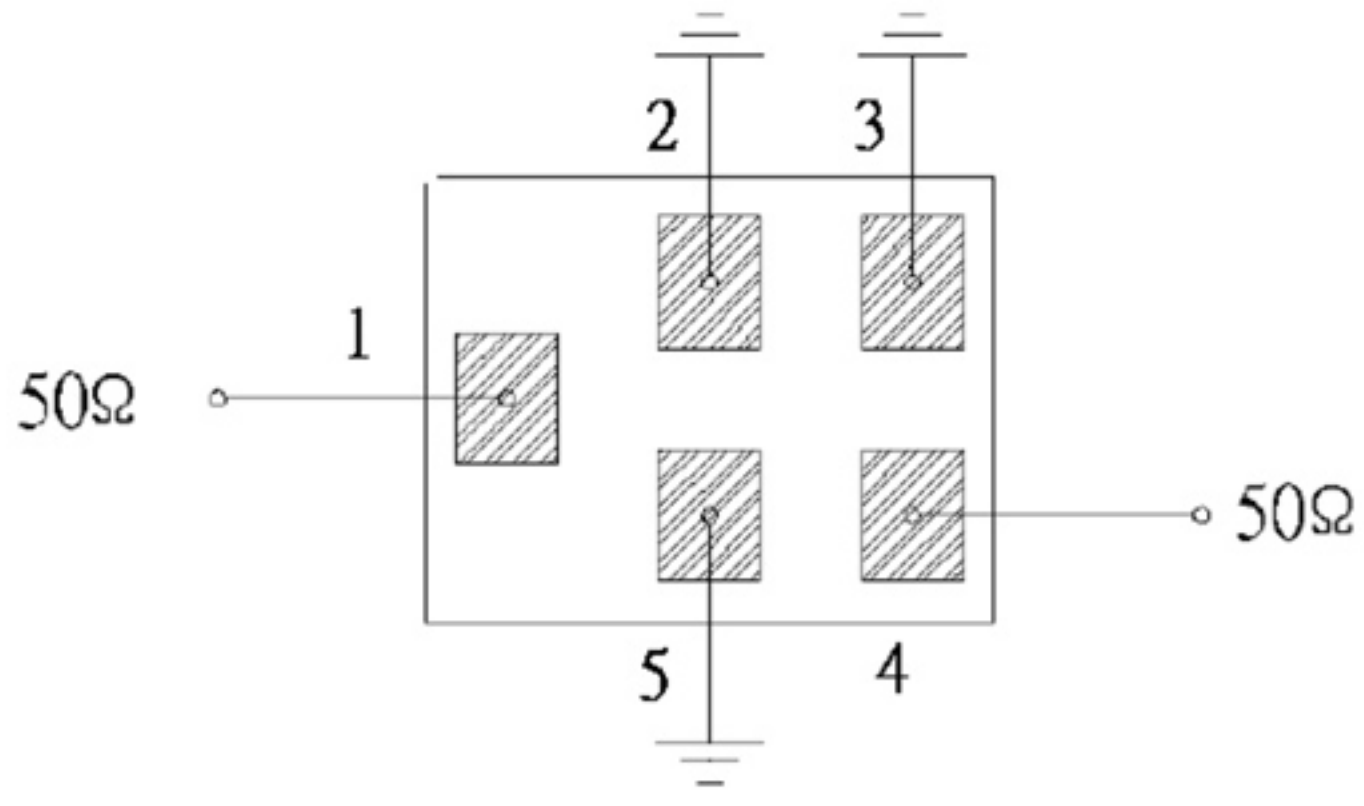
All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

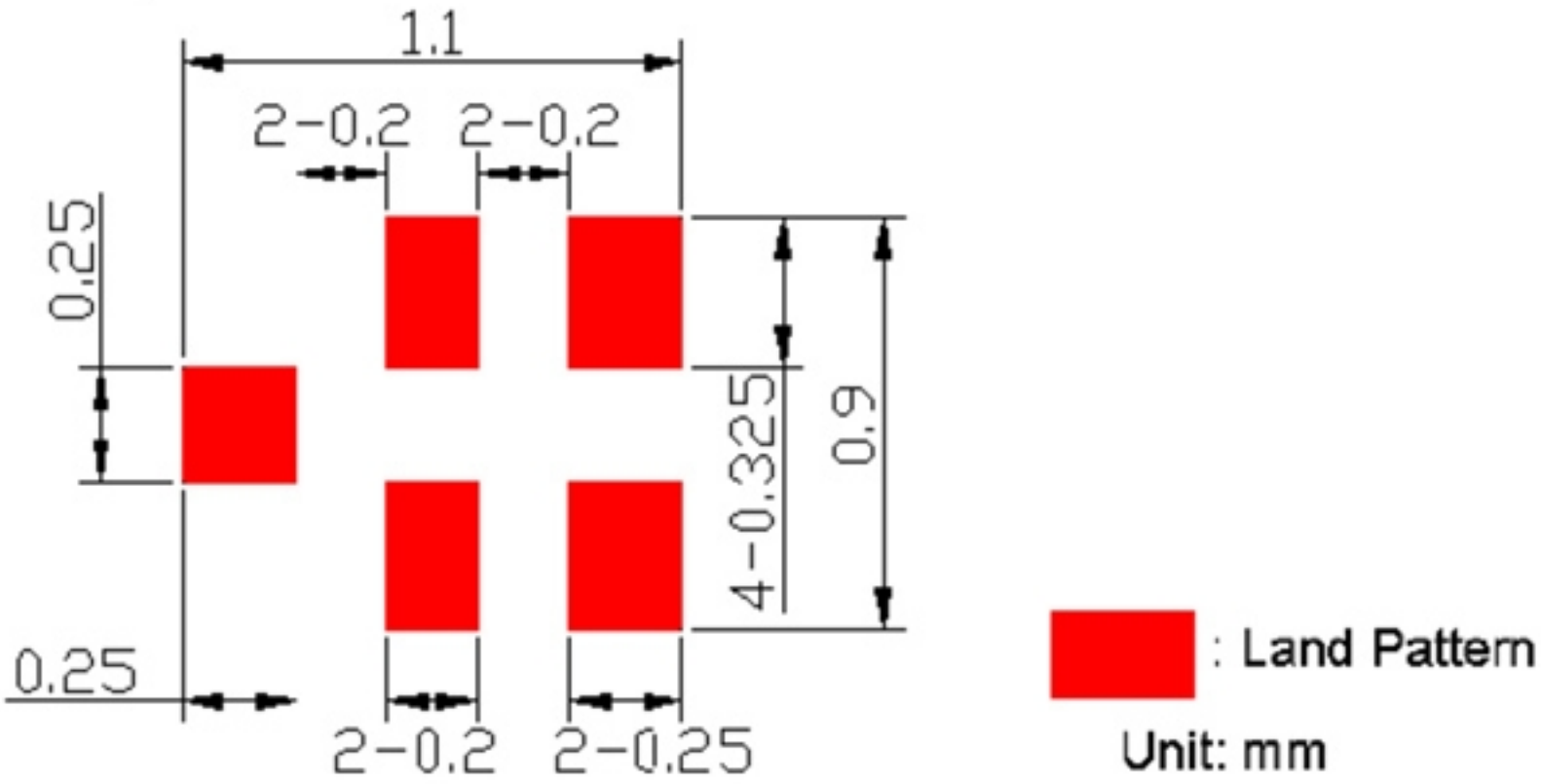
Δ : Year/Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2014	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2015	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2016	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**
2017	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2018	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2019	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2020	**n**	**p**	**q**	**r**	**s**	**t**	**u**	**v**	**w**	**x**	**y**	**z**

E. MEASUREMENT CIRCUIT:



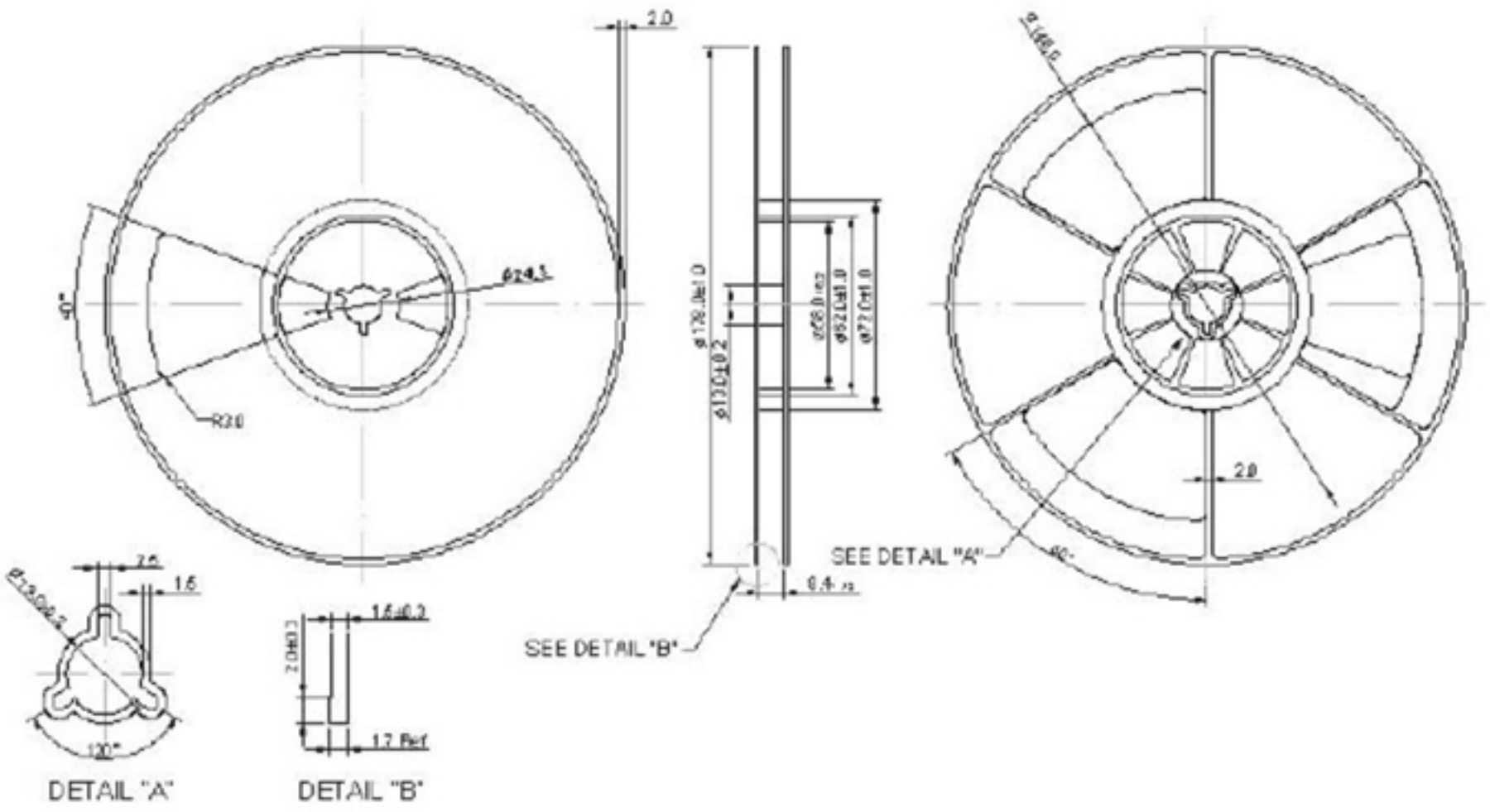
F. PCB Footprint:



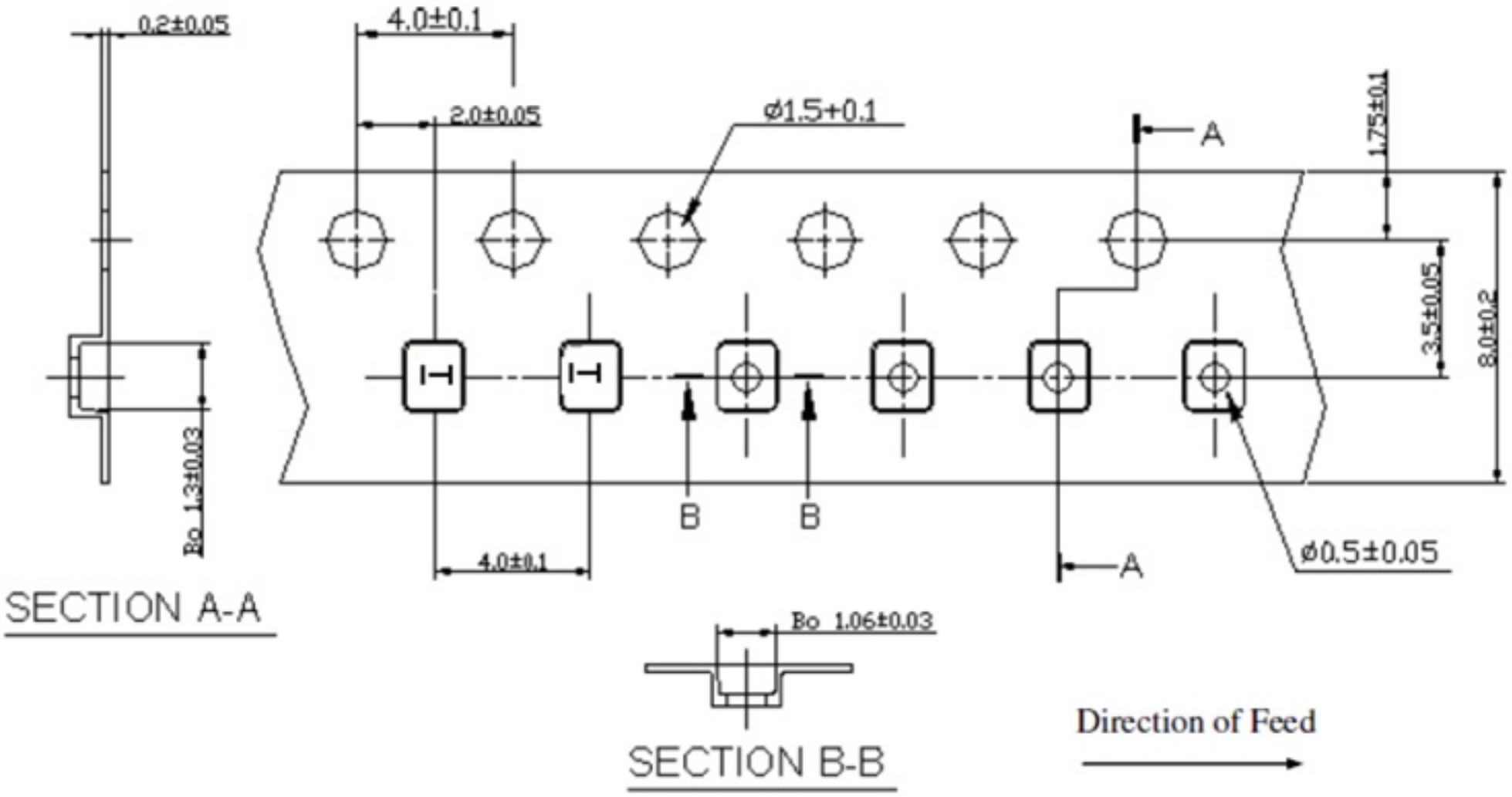
G. <u>PACKING</u>:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. <u>RECOMMENDED REFLOW PROFILE</u> :

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.