SAW Filter 725.5 MHz SMD 1.4X1.1 mm
MODEL NO.:TA2596A REV. NO.:1.0

RoHS Compliant
Lead free
Lead-free soldering

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

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 0V
3. Operating Temperature: -30℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitive Level: Level 3 (MSL3)

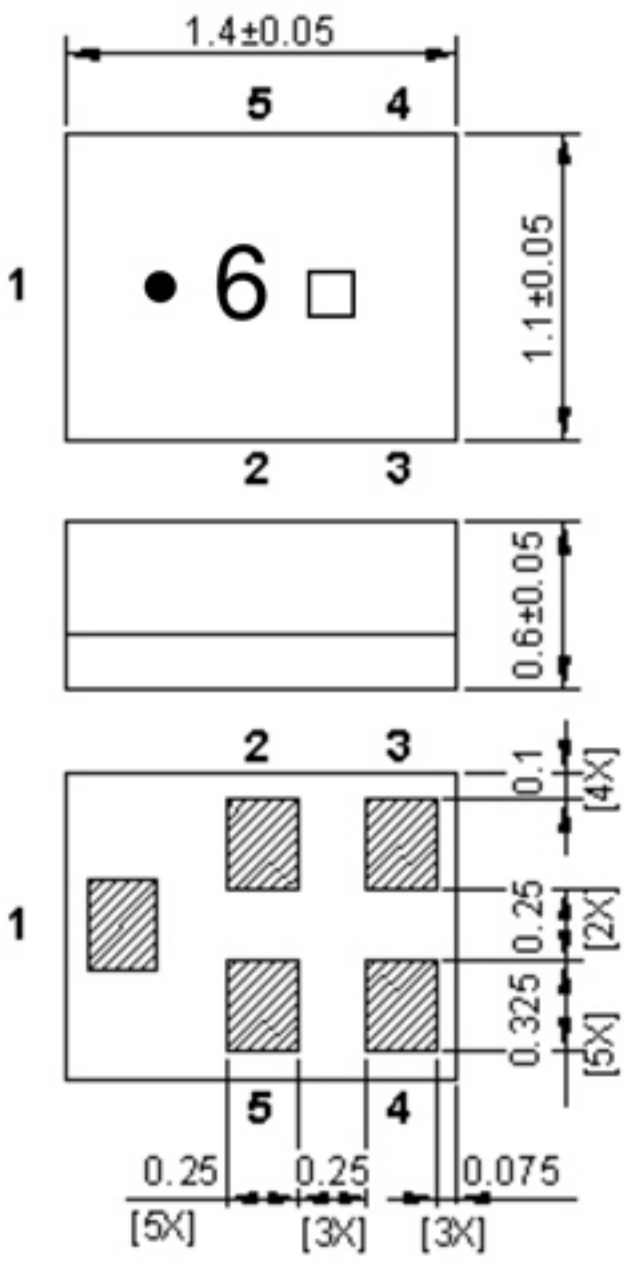
B. ELECTRICAL CHARACTERISTICS:

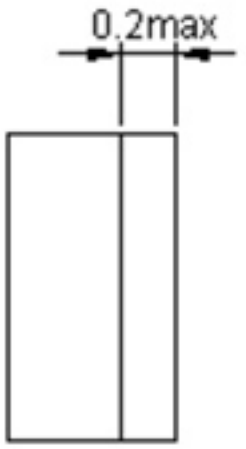
Terminating source impedance : $Z_S = 50\ \Omega$

Terminating load impedance : $Z_L = 50\ \Omega$

Item	Unit	Min.	Type.	Max.
Center Frequency	MHz	-	725.5	-
Insertion Loss (703 ~ 748 MHz)	dB	-	2.5	3.0
Amplitude ripple (703 ~ 748 MHz)	dB	-	1.4	2.5
VSWR (703 ~ 748 MHz)	-	-	1.8	2.2
Attenuation				
10 ~ 650 MHz	dB	28	32	-
758 ~ 763 MHz	dB	20	26	-
763 ~ 803 MHz	dB	20	24	-
803 ~ 1500 MHz	dB	28	33	-
1500 ~ 3000 MHz	dB	20	24	-
Temperature Coefficient of Frequency	ppm/C°	-	-36	-

C.OUTLINE DRAWING:





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

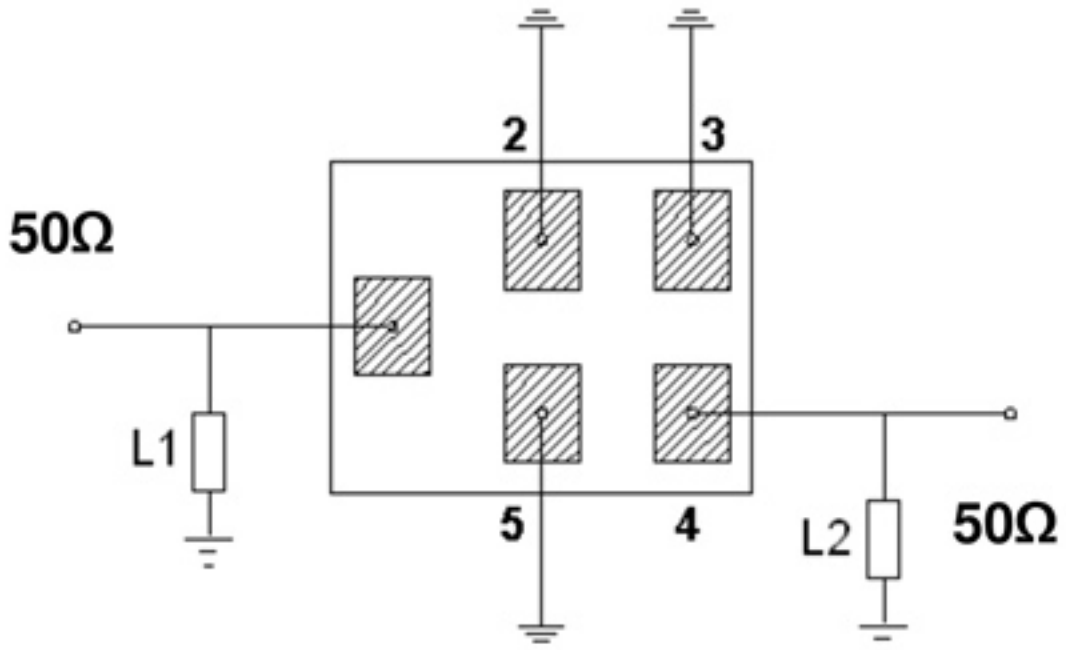
Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : 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**

D. MEASUREMENT CIRCUIT:

* By Network analyzer simulation matching with port extension



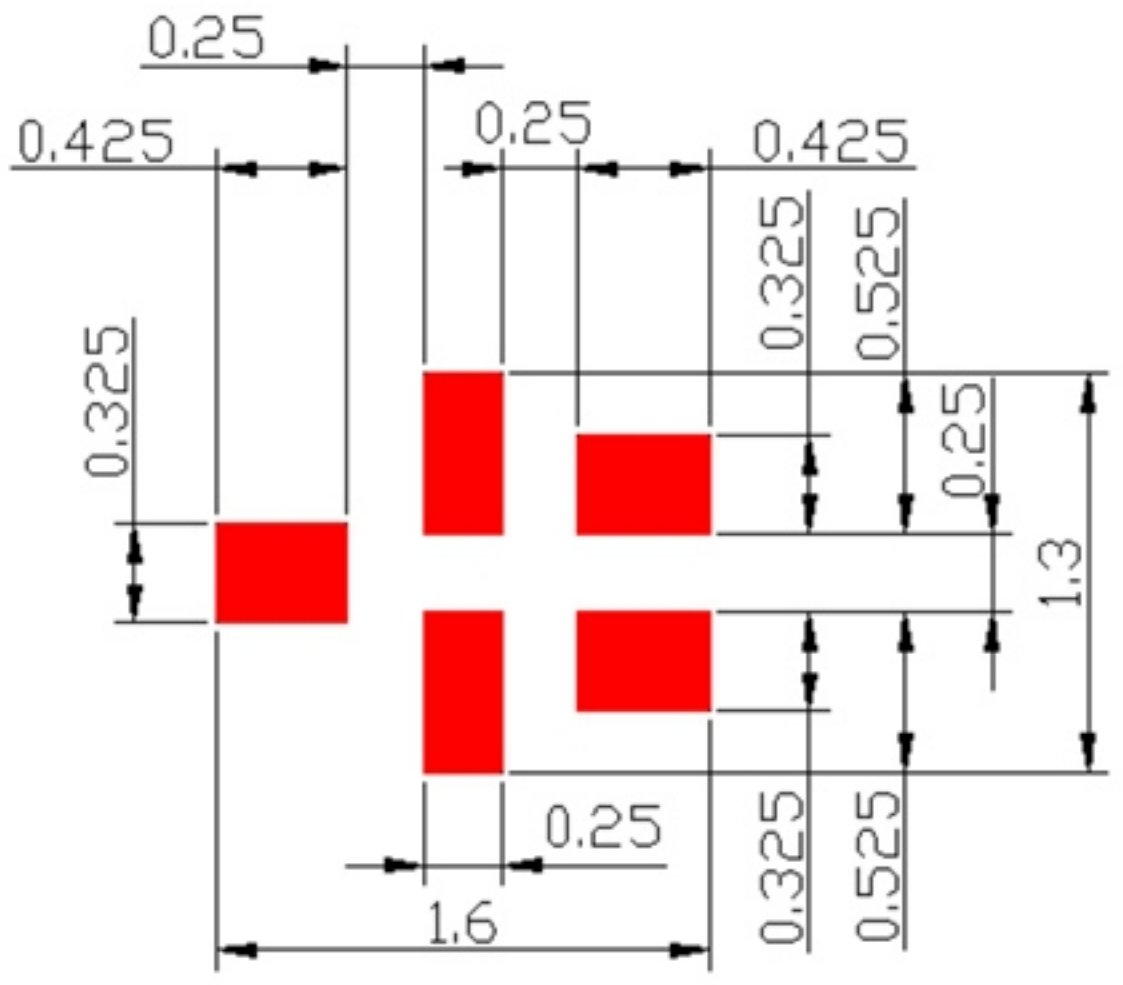
(1): Unbalance Port

(4): Unbalance Port

Others: Ground

L1 = L2 = 10 nH

E. PCB Footprint:

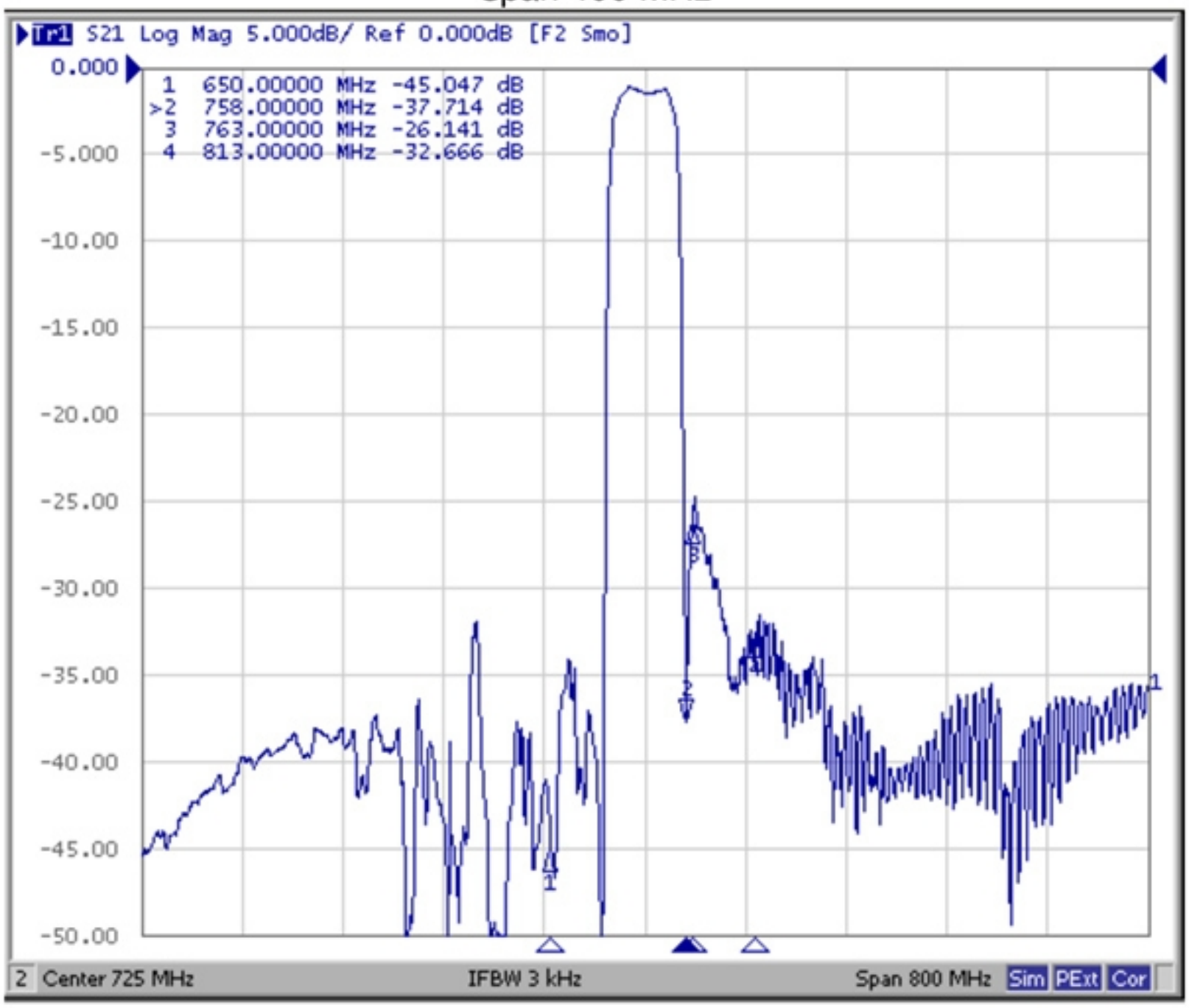


: Land Pattern

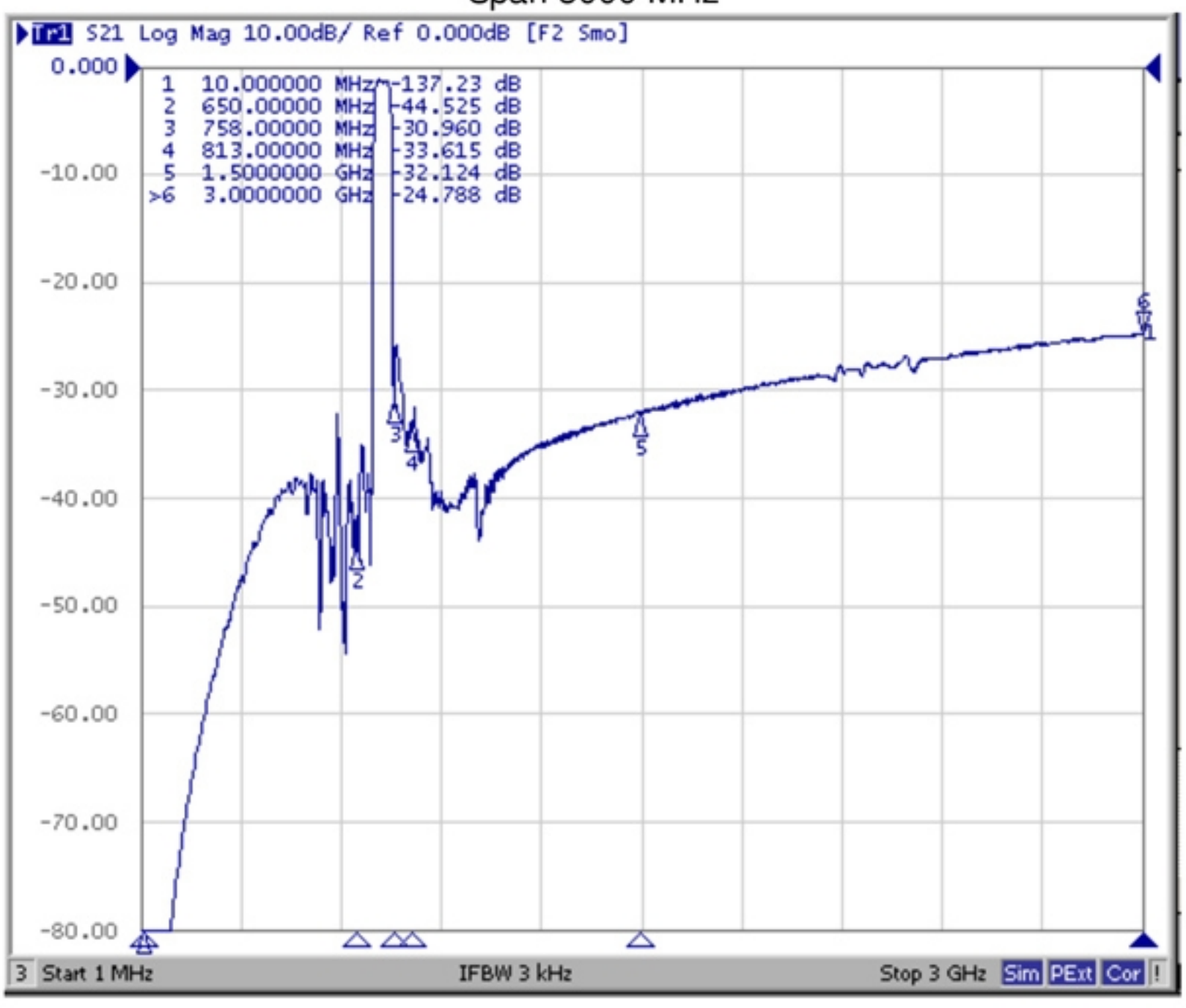
Unit : mm

F. Frequency Characteristics :

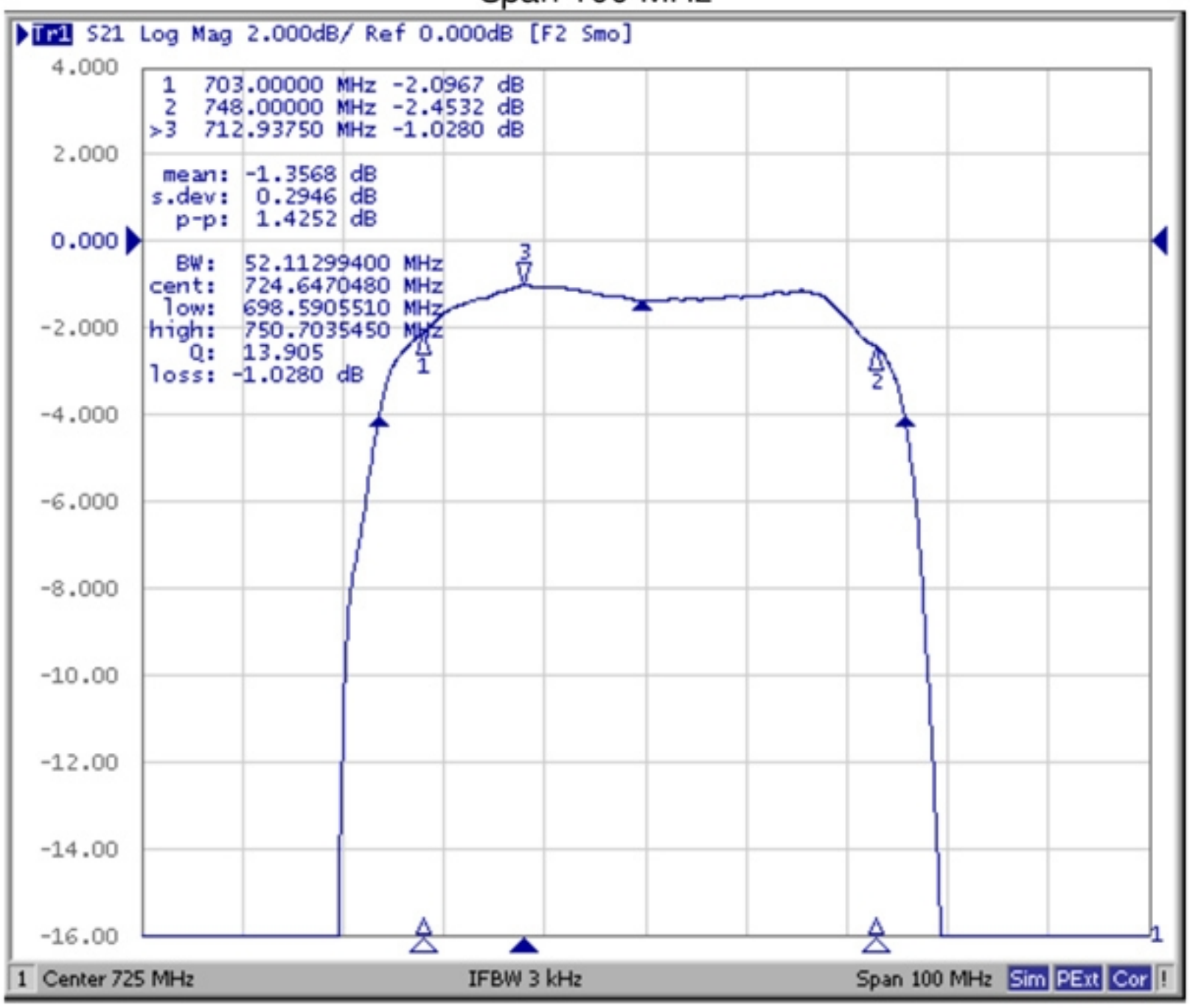
Span 400 MHz



Span 3000 MHz

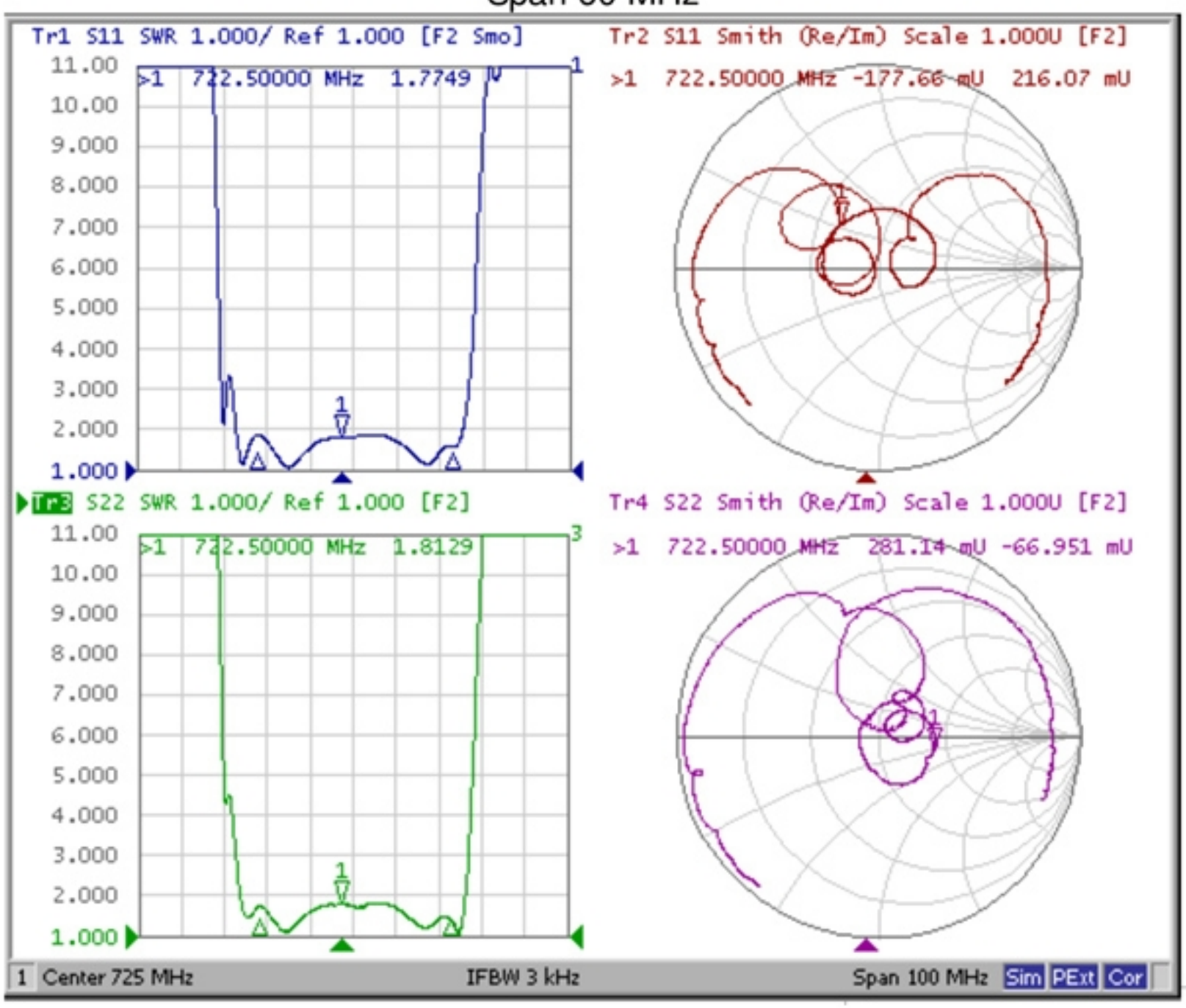


Span 100 MHz



Reflection Functions :

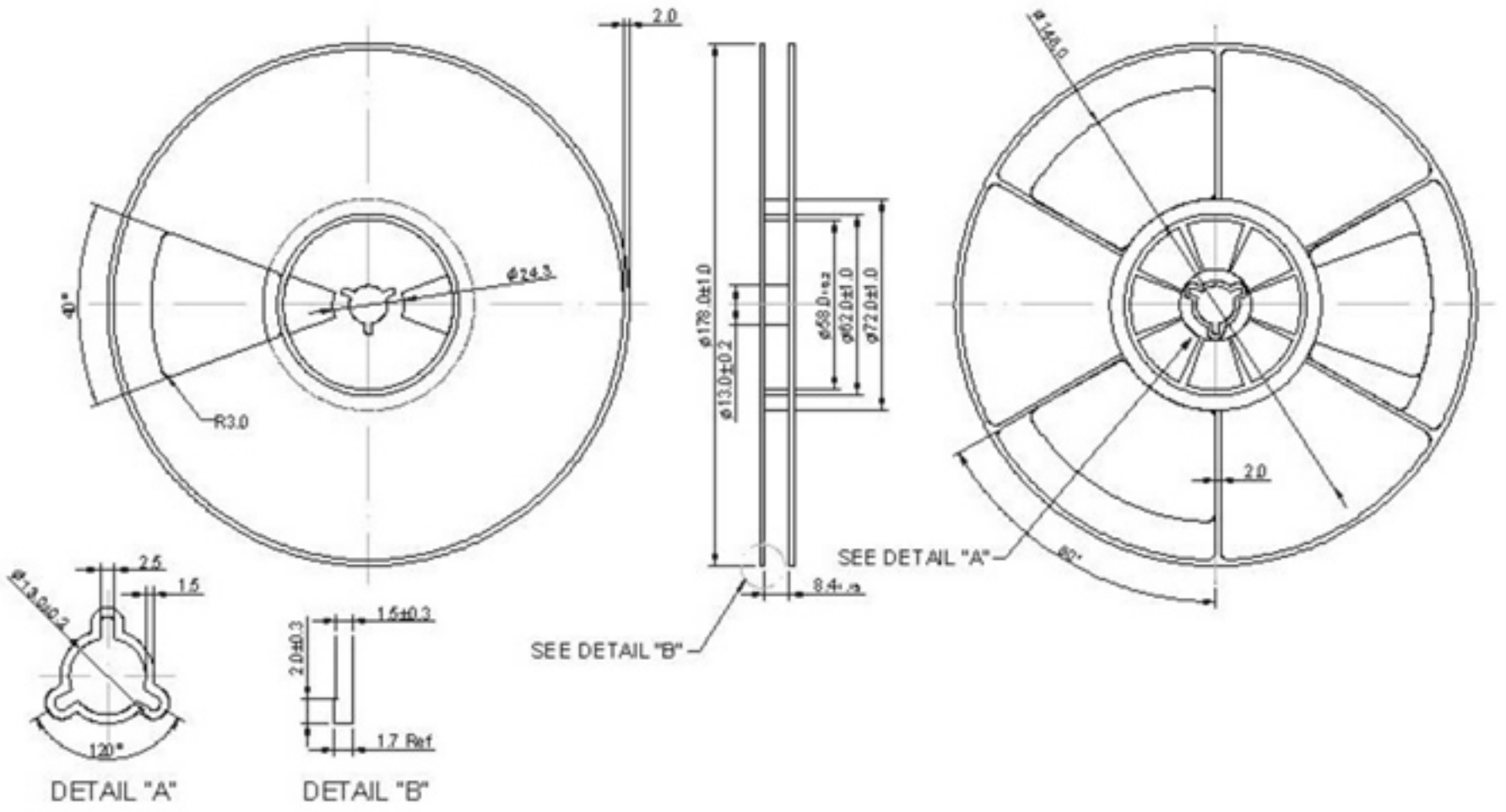
Span 60 MHz



G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION

H. RECOMMENDED REFLOW PROFILE :

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.