RFM Integrated Device, Inc.

PRODUCT SPECIFICATION

Part Number: SF2631K

FILTER,869.000 MHz, BW 2.0 MHz, IL 3.0 dB

A. MAXIMUM RATING:

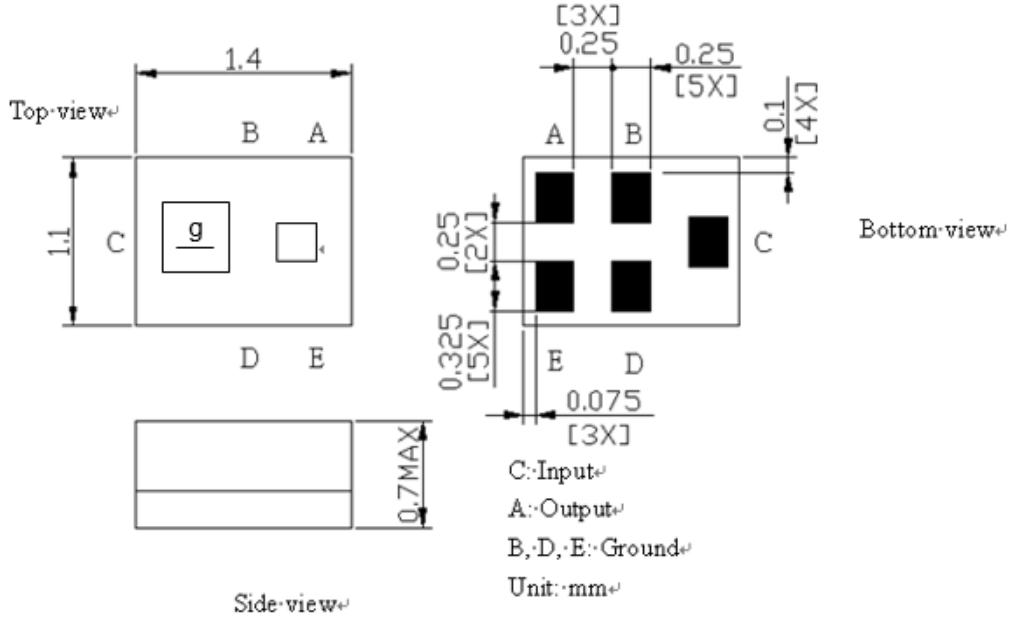
- Input Power Level: 18 dBm
- DC Voltage : 6V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: 3

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : Zs = 50 Ω
Terminating load impedance(single) : Z_L = 50 Ω

Item	Unit	Min	Type.	Max
Center Frequency Fc	MHz	-	869	-
Insertion Loss (868~870 MHz) **IL**	dB		2.5	3.0
Amplitude ripple **(868~870 MHz)**	dB		0.5	1.2
VSWR				
Input **(868~870 MHz)**			1.4	2.0
Output **(868~870 MHz)**			1.4	2.0
Attenuation				
10 ~ 845 MHz	dB	30	35	
845 ~ 851 MHz	dB	33	38	
851 ~ 856 MHz	dB	20	25	
883 ~ 892 MHz	dB	30	35	
892 ~ 910 MHz	dB	35	40	
910 ~ 1000 MHz	dB	35	40	
1500 MHz	dB		35	
Package size	mm	SMD 1411		

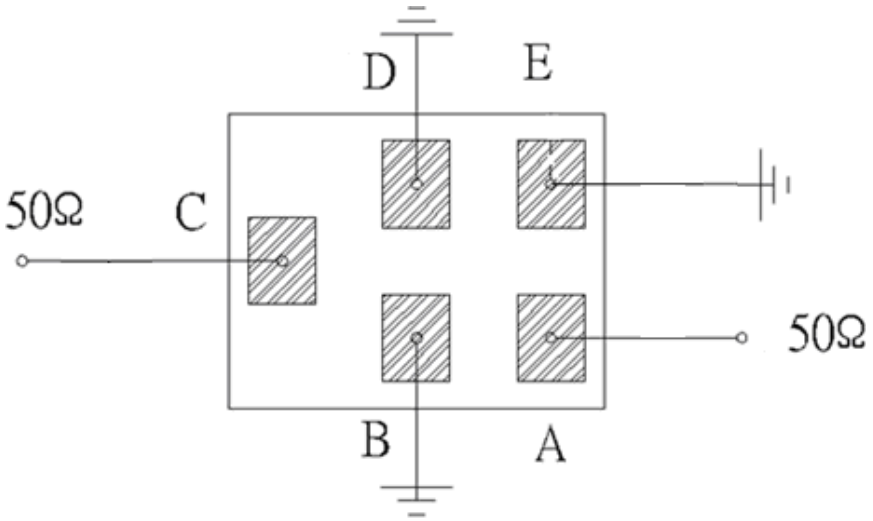
C.OUTLINE DRAWING:



□ : Year/Month Code (Follow the table)

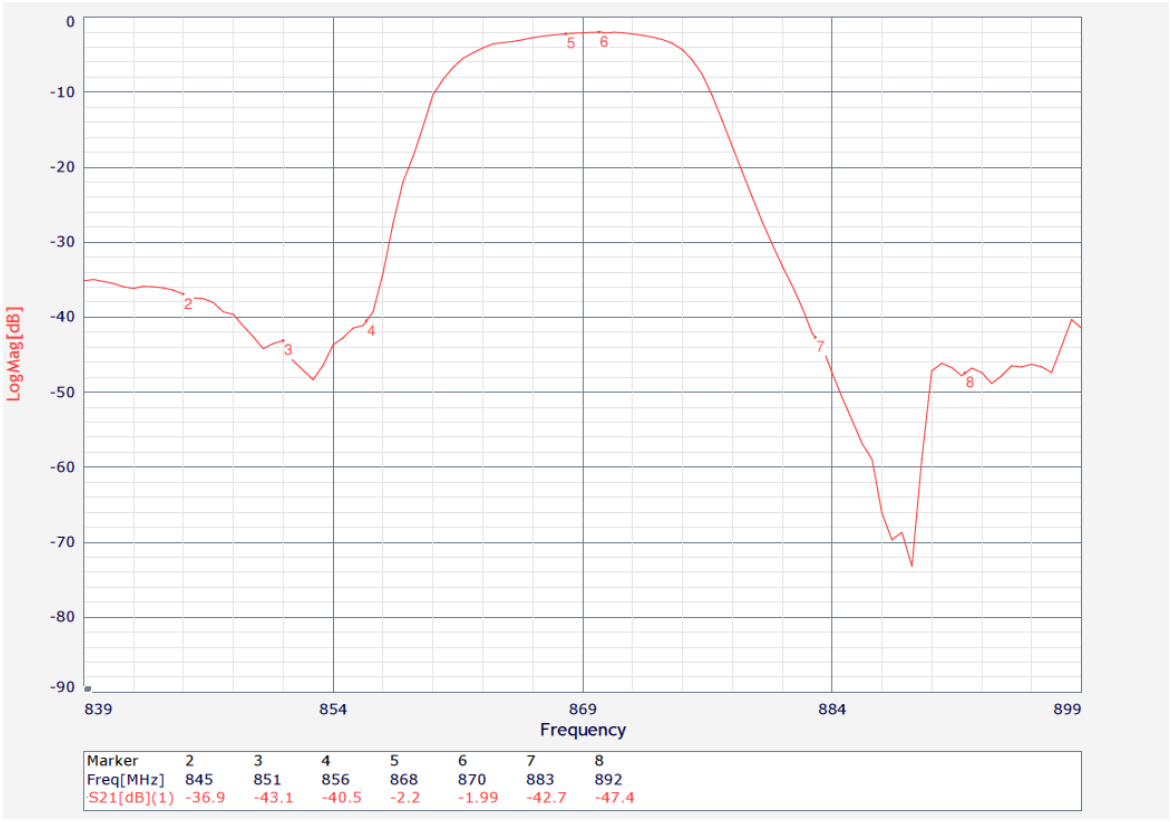
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	**A**	**B**	**C**	**D**	**E**	**F**	**G**	**H**	**J**	**K**	**L**	**M**
2014	**N**	**P**	**Q**	**R**	**S**	**T**	**U**	**V**	**W**	**X**	**Y**	**Z**
2015	**a**	**b**	**c**	**d**	**e**	**f**	**g**	**h**	**j**	**k**	**l**	**m**
2016	**n**	**p**	**q**	**r**	**s**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

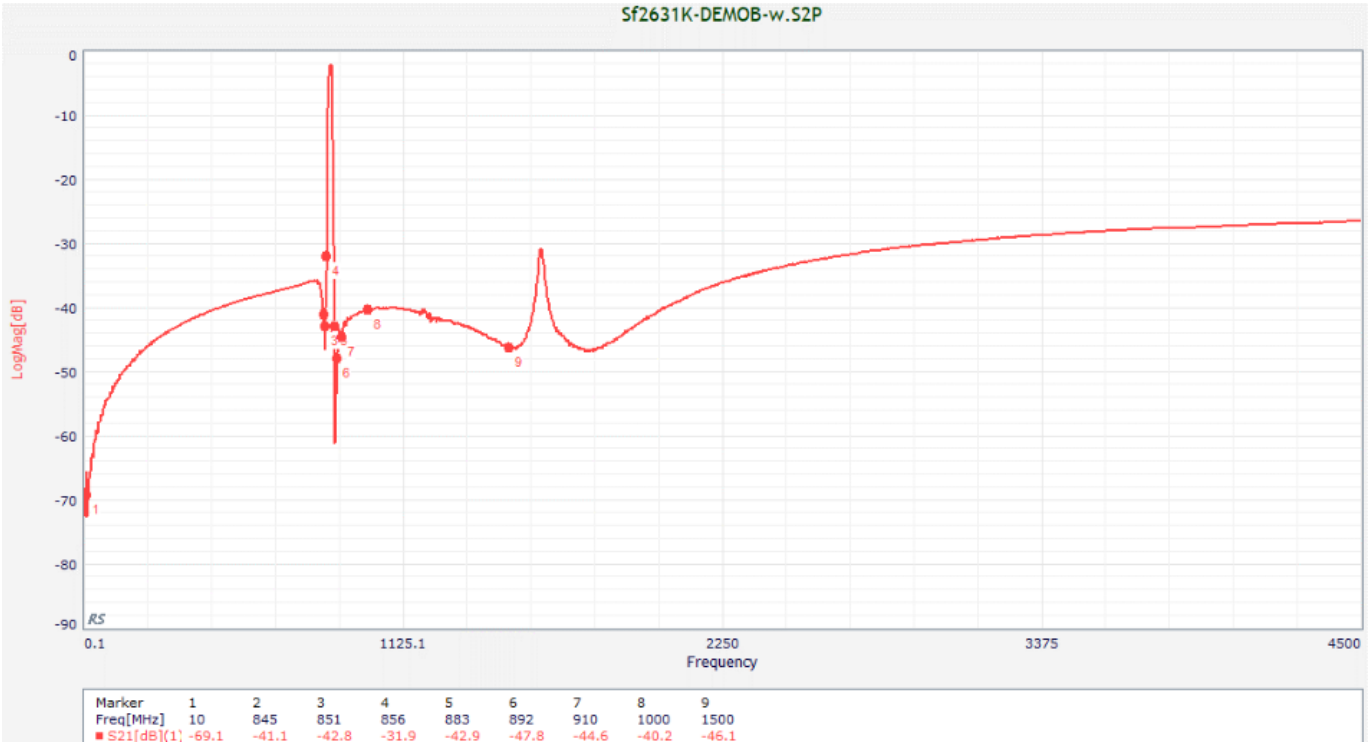
D. MEASUREMENT CIRCUIT:



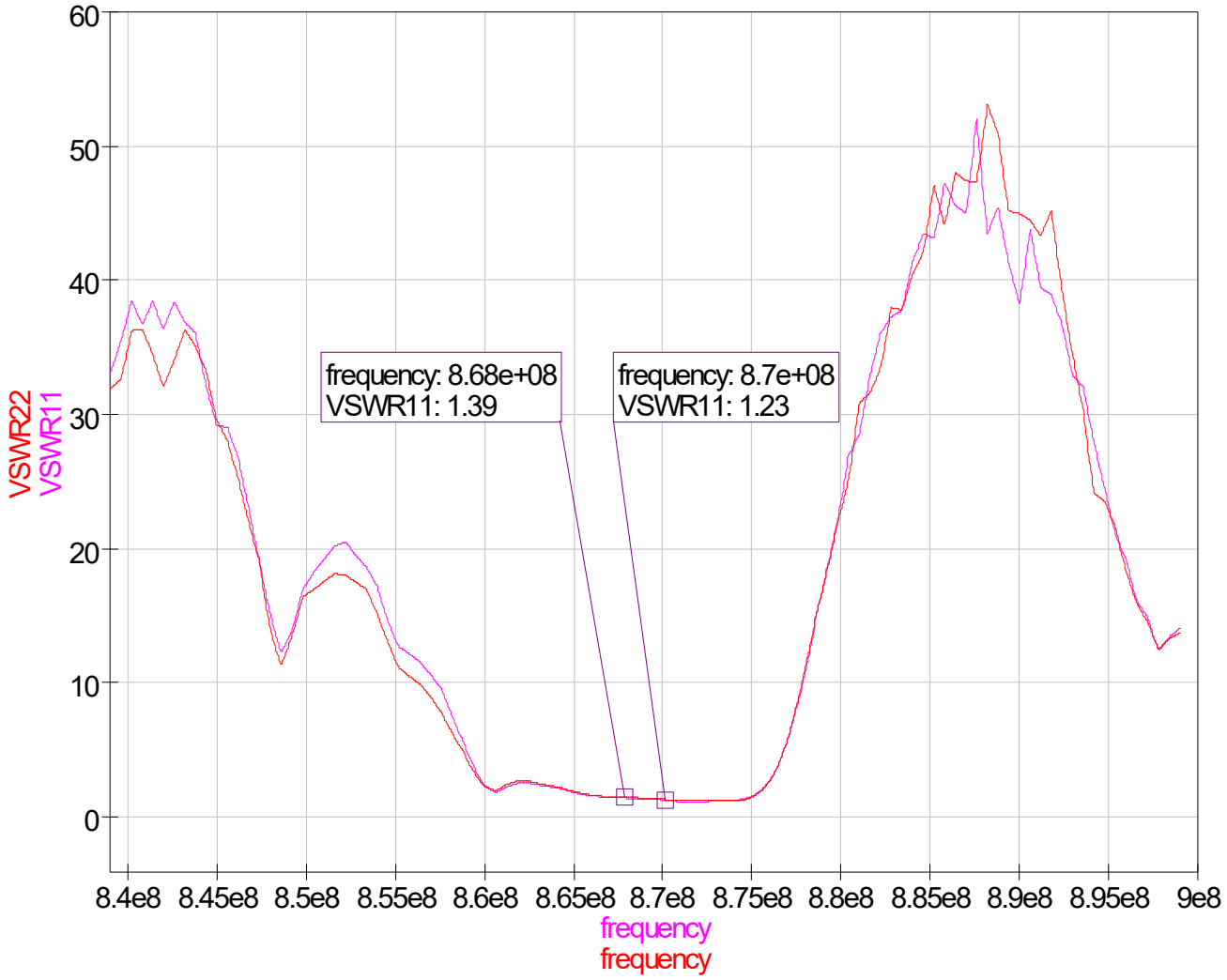
E. Frequency Characteristics:

S21 response:





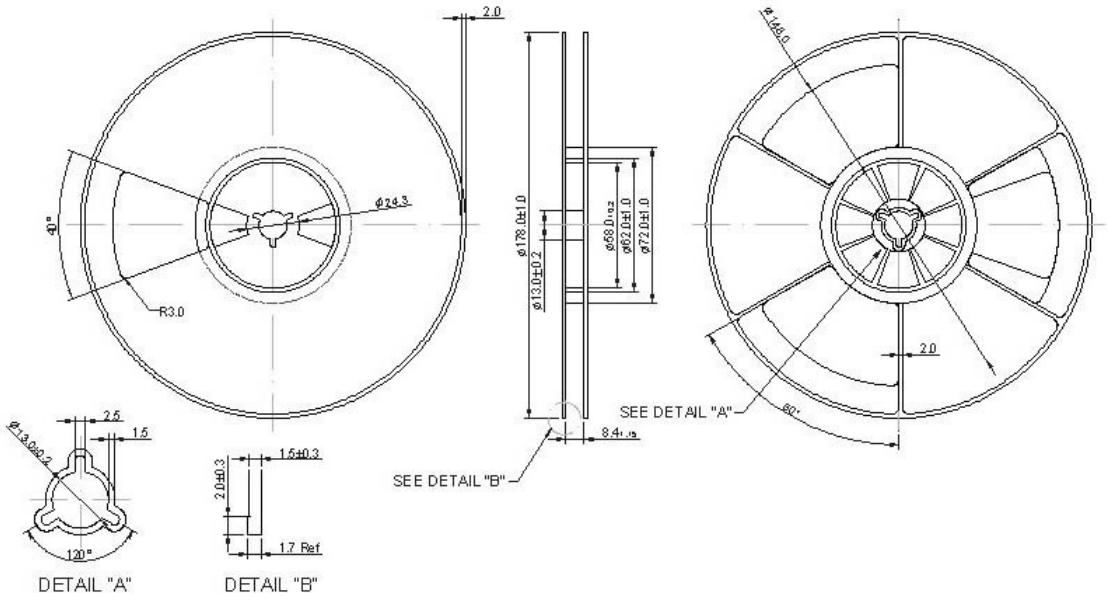
VSWR response：



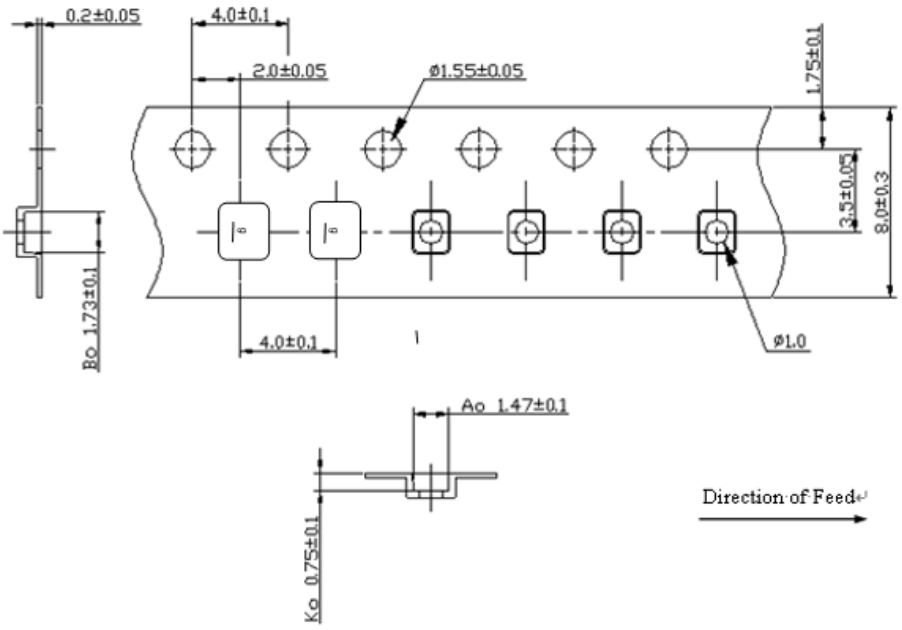
F. PACKING:

1. REEL DIMENSION

Reel Count: 7" = 3000



2. TAPE DIMENSION



G. Recommended Reflow Profile

1. Preheating shall be fixed at 150~180ºC for 60~90 seconds.
2. Ascending time to preheating temperature 150ºC shall be 30 seconds min.
3. Heating shall be fixed at 220ºC for 50~80 seconds and at 260ºC +0/-5ºC peak (10 seconds).
4. Time: 5 times maximum.