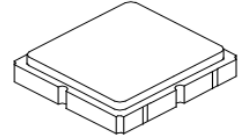


SF2436D

**525 MHz
SAW Filter**



SM3838-6

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -30°C to 60°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: 1

B. CHARACTERISTICS:

1. Ambient Temperature: 25 °C

Item	Unit	Min.	Typ.	Max.
Center frequency, Fc	MHz	-	525	-
Amplitude ripple (513 ~ 537 MHz)	dB	-	1.1	1.7
Insertion loss, IL (513 ~ 537 MHz)	dB	-	2.2	3.0
Group Delay, GD (513 ~ 537 MHz)	ns	-	46	200
Bandwidth @ -3 dB		24	34.9	-
Attenuation (reference from 0dB)				
0.3 ~ 480 MHz	dB	32	37	-
480 ~ 495 MHz	dB	10	20	-
555 ~ 600 MHz	dB	10	19	-
600 ~ 825 MHz	dB	39	44	-
825 ~ 1000 MHz	dB	32	37	-
Source impedance, Z _s	Ω	-	50	-
Load impedance, Z _L	Ω	-	50	-

Note1. No matching network required for operation at 50Ω



CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

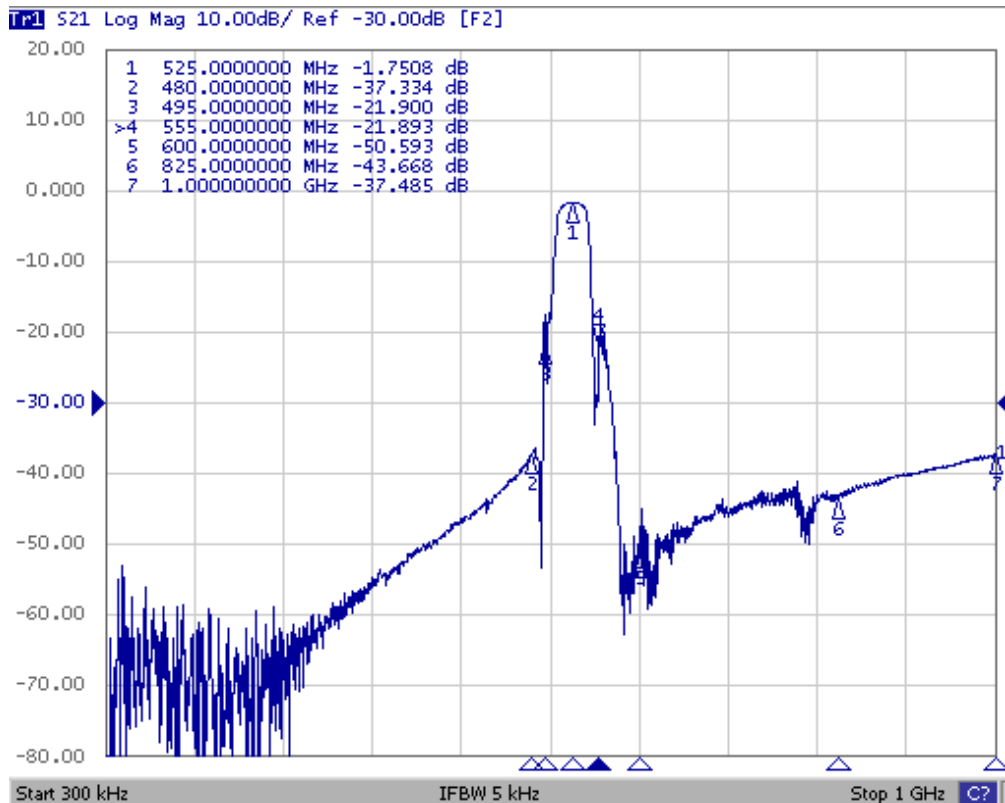
1. Ambient Temperature: -30°C ~ 60°C

Item	Unit	Min.	Typ.	Max.
Center frequency, Fc	MHz	-	525	-
Amplitude ripple (513 ~ 537 MHz)	dB	-	1.1	2.0
Insertion loss, IL (513 ~ 537 MHz)	dB	-	2.2	4.0
Group Delay, GD (513 ~ 537 MHz)	ns	-	46	200
Bandwidth @ -3 dB		24	34.9	-
Attenuation (reference from 0dB)				
0.3 ~ 480 MHz	dB	32	37	-
480 ~ 495 MHz	dB	10	20	-
555 ~ 600 MHz	dB	10	19	-
600 ~ 825 MHz	dB	39	44	-
825 ~ 1000 MHz	dB	32	37	-
Source impedance, Z _s	Ω	-	50	-
Load impedance, Z _L	Ω	-	50	-

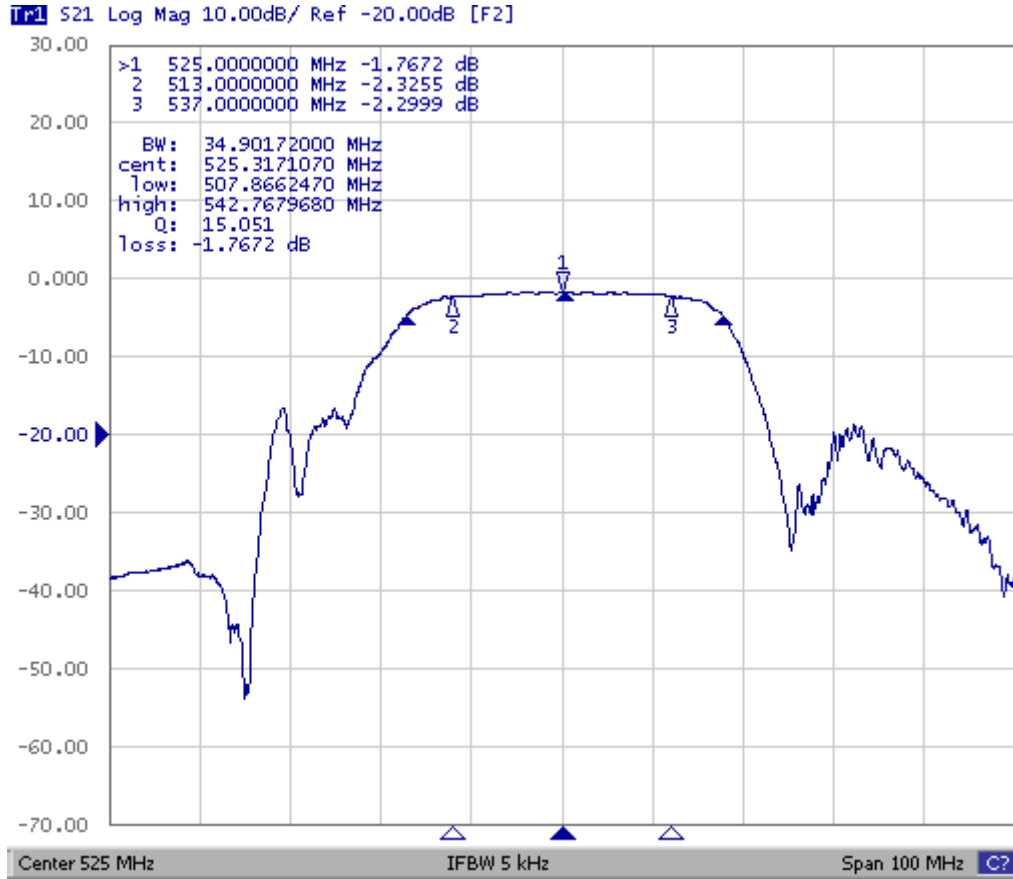
Note1. No matching network required for operation at 50Ω

C. Transfer Function :

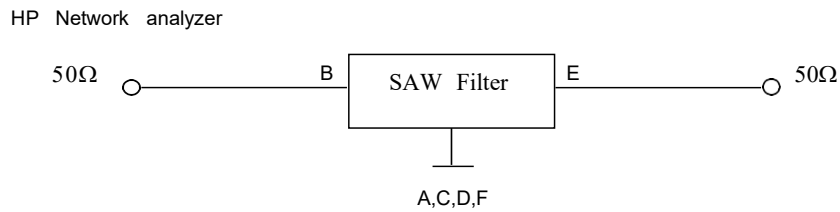
Wideband



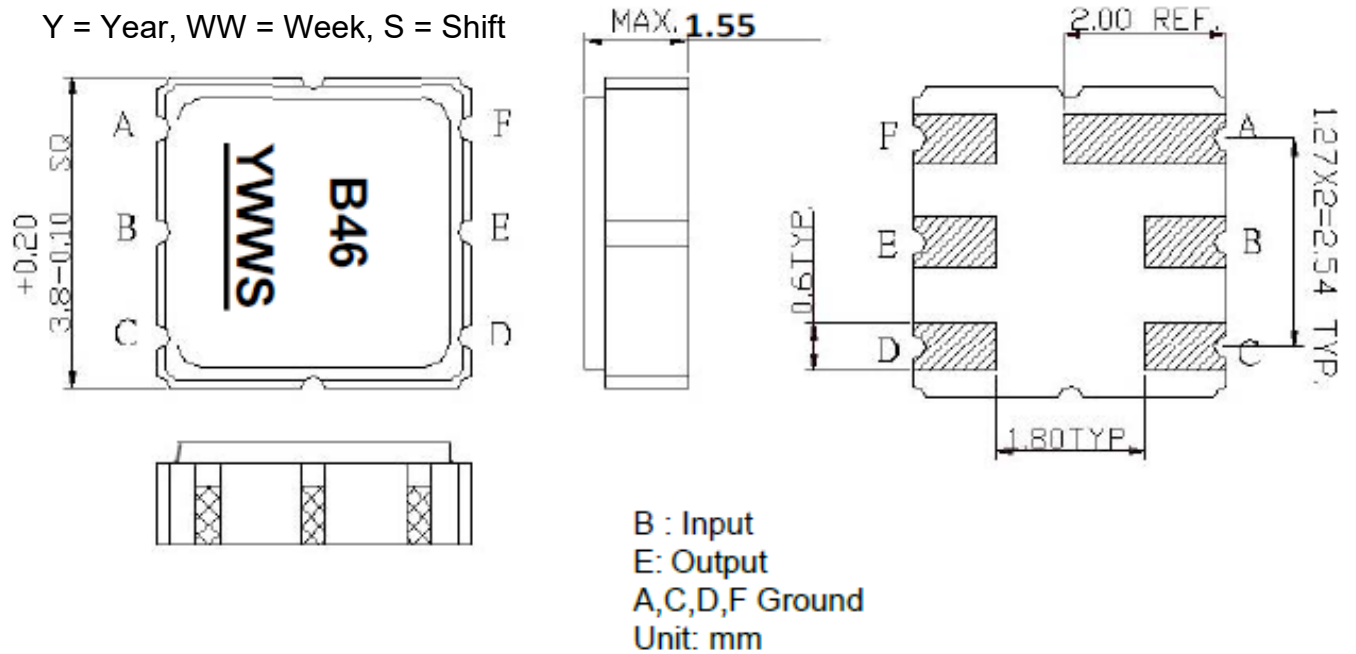
Passband



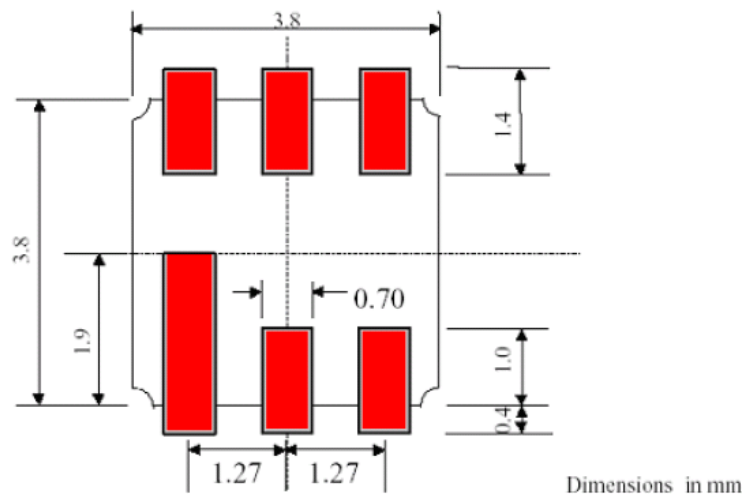
D. MEASUREMENT CIRCUIT:



E. OUTLINE DRAWING:



F. PCB Footprint:



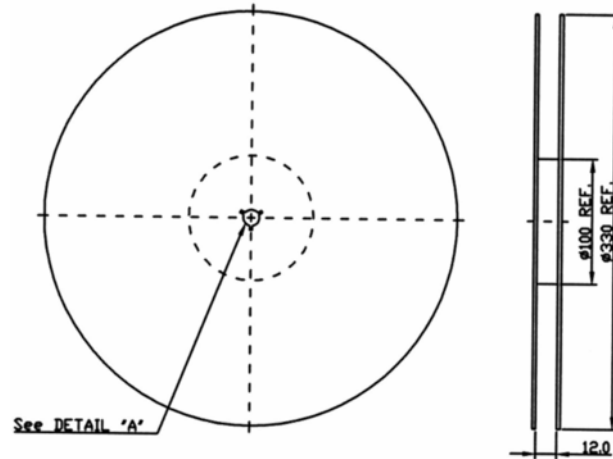
G. PACKING:

Reel Count:

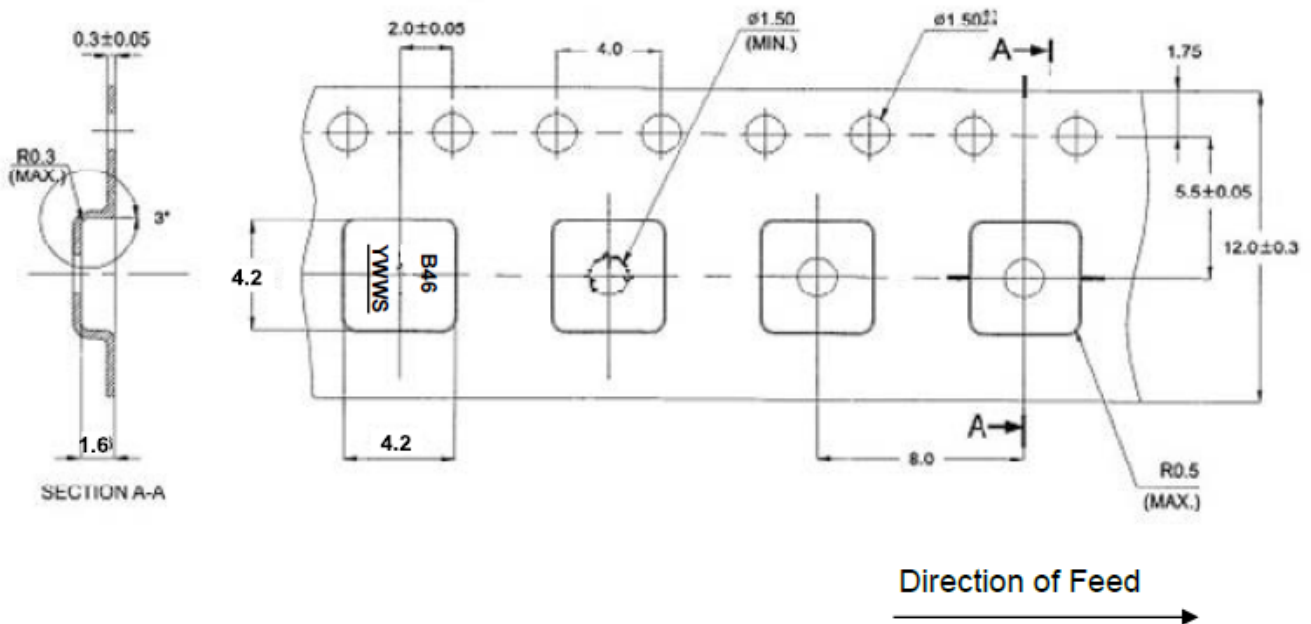
7" = 500

13" = 3000

1. REEL DIMENSION



2. TAPE DIMENSION



H. RECOMMENDED REFLOW PROFILE :

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

