

BF2007LA

**2593 MHz
BAW Filter**



SM1109-6

Maximum Rating:

- ▽Input Power Level : 32dBm
- ▽DC Voltage : +/-5V
- ▽Operating Temperature: -30°C to +85°C
- ▽Storage Temperature: -40°C to +100°C
- ▽Moisture Sensitivity Level: Level 1
- ▽AEC-Q200 Compliant

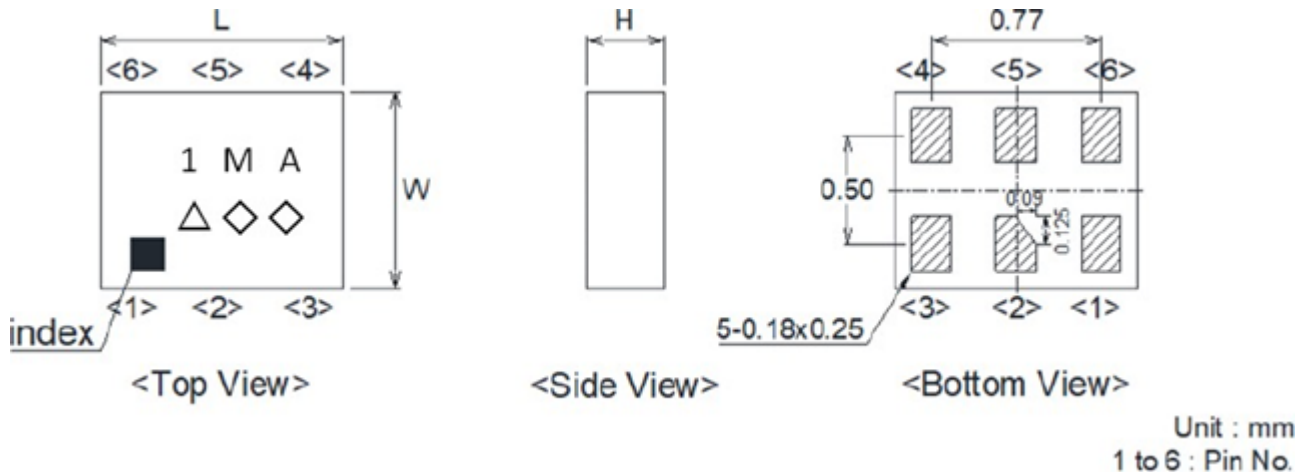
Electrical Characteristics:

Item	Unit	Min.	Typ.	Max.	Note	
Center Frequency	MHz	-	2593			
Insertion Loss	2496~2515 MHz	dB	-	2.1	3.2	
		dB	-	1.2	3.1	+25°C
	2515~2675 MHz	dB	-	1.2	2.2	
		dB	-	1.2	2.2	+25°C
	2675 ~ 2690 MHz	dB	-	1.2	2.4	
		dB	-	1.2	2.2	+25°C
Amplitude Ripple	2496 ~ 2690 MHz	dB	-	1.2	2.4	
VSWR(Input)	2496 ~ 2690 MHz	-	-	1.5	2.0	
VSWR(Output)	2496 ~ 2690 MHz	-	-	1.5	2.0	

Attenuation (reference level from 0 dB)						
Attenuation	616 ~ 960 MHz	dB	40	52	-	
	1166 ~ 1254 MHz	dB	35	44	-	
	1559 ~ 1606 MHz	dB	30	35	-	
	1710 ~ 1785 MHz	dB	28	32	-	
	1805 ~ 1880 MHz	dB	25	29	-	
	1880 ~ 1920 MHz	dB	24	29	-	
	1920 ~ 1990 MHz	dB	23	28	-	
	2110 ~ 2170 MHz	dB	23	26	-	
	2300 ~ 2400 MHz	dB	23	27	-	
Attenuation(*1)	2402 ~ 2452 MHz	dB	30	41	-	WiFi Channel 1-7
	2437 ~ 2457 MHz	dB	21	46	-	WiFi Channel 8
	2442 ~ 2462 MHz	dB	14	39	-	WiFi Channel 9
	2477 ~ 2467 MHz	dB	10	32	-	WiFi Channel 10
	2452 ~ 2472 MHz	dB	6	20	-	WiFi Channel 11
Attenuation	3300 ~ 3800 MHz	dB	15	27	-	
	3800 ~ 4200 MHz	dB	15	22	-	
	4400 ~ 4800 MHz	dB	24	38	-	
	4800 ~ 4900 MHz	dB	24	44	-	
	4992 ~ 5380 MHz	dB	24	39	-	
	5150 ~ 5850 MHz	dB	24	47	-	
	7488 ~ 8070 MHz	dB	20	28	-	

(*1) Integrated over 19 MHz CH BW.

Outline Drawing



Marking name : 1MA

△ : Date Code

◇ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

L = 1.1 +/- 0.1 mm

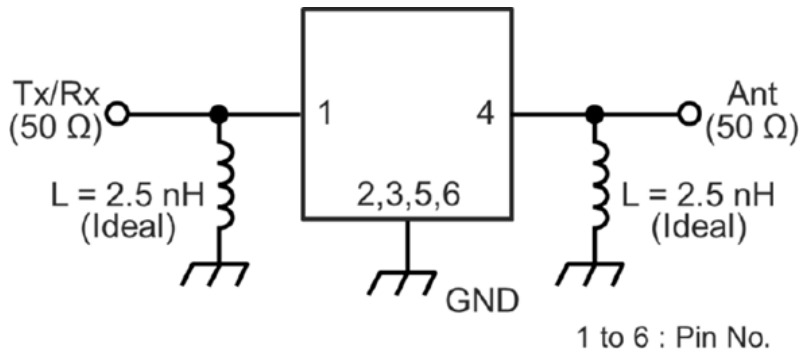
W = 0.9 +/- 0.1 mm

H = 0.35mm Max

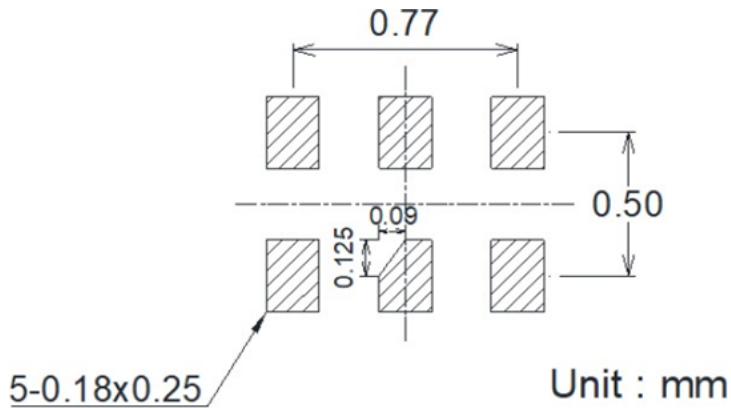
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2021/2025	A	B	C	D	E	F	G	H	J	K	L	M
2022/2026	N	P	Q	R	S	T	U	V	W	X	Y	Z
2023/2027	a	b	c	d	e	f	g	h	j	k	l	m
2024/2028	n	p	q	r	s	t	u	v	w	x	y	z

Pin No.	Symbol	Function
1	Tx/Rx	Transmitter/Receiver
2	GND	Ground
3	GND	Ground
4	Ant	Antenna
5	GND	Ground
6	GND	Ground

Real Circuit

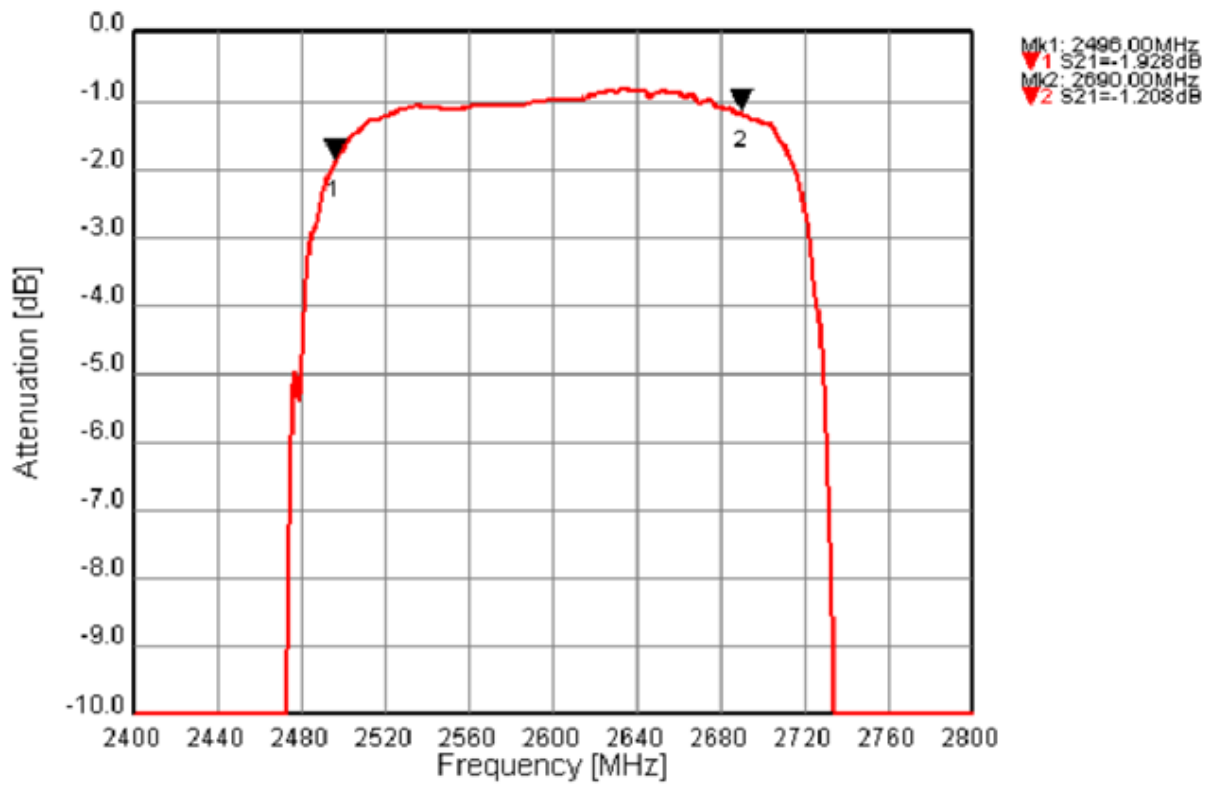
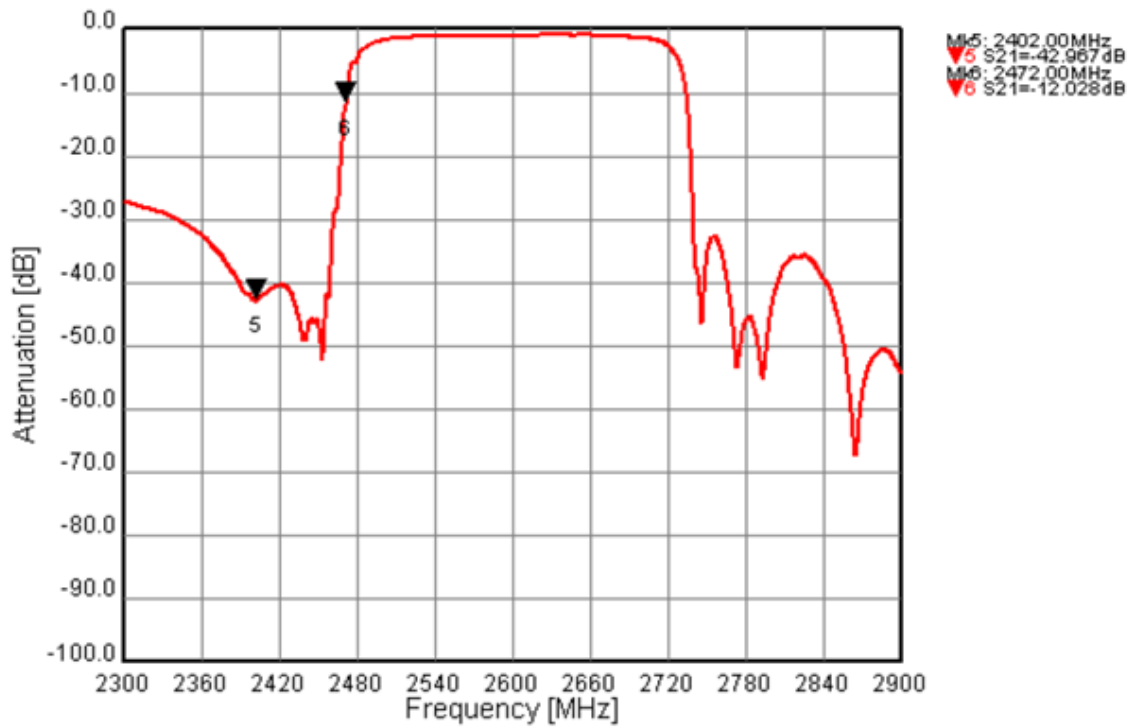


PCB Footprint

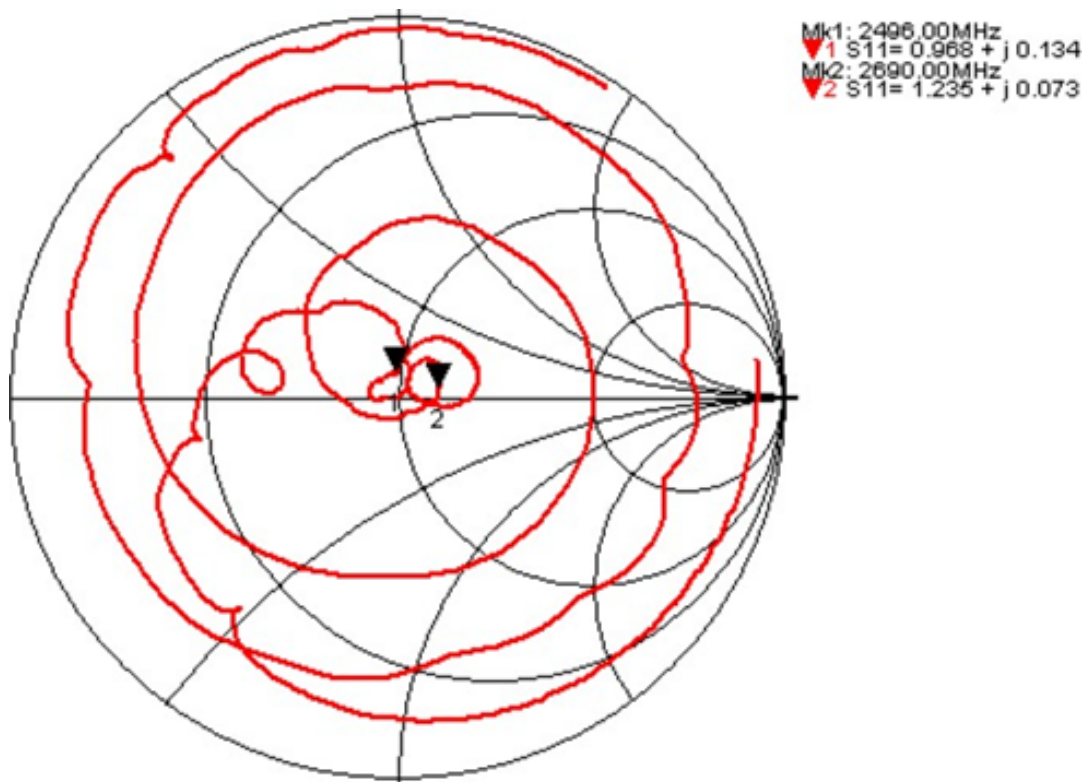
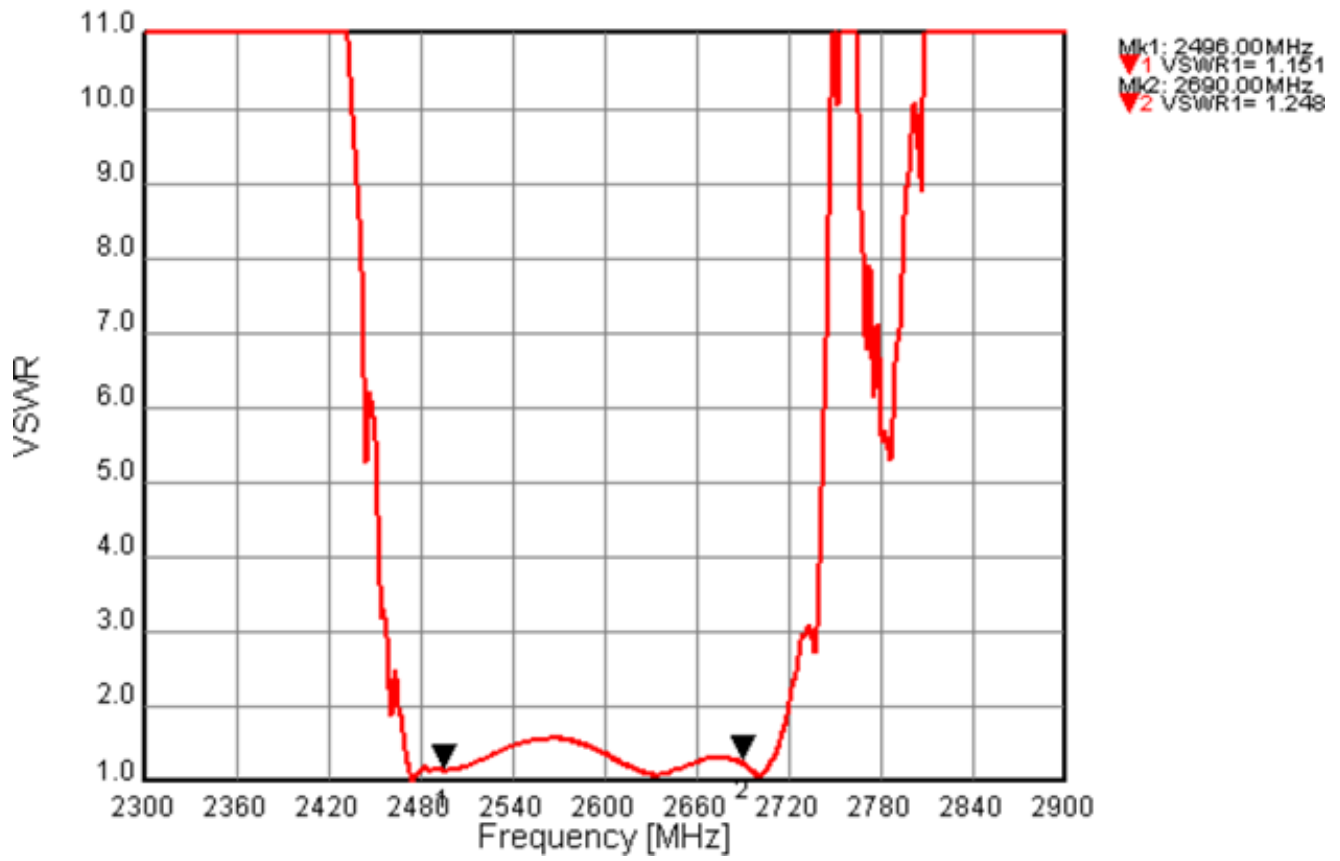


Frequency Characteristics

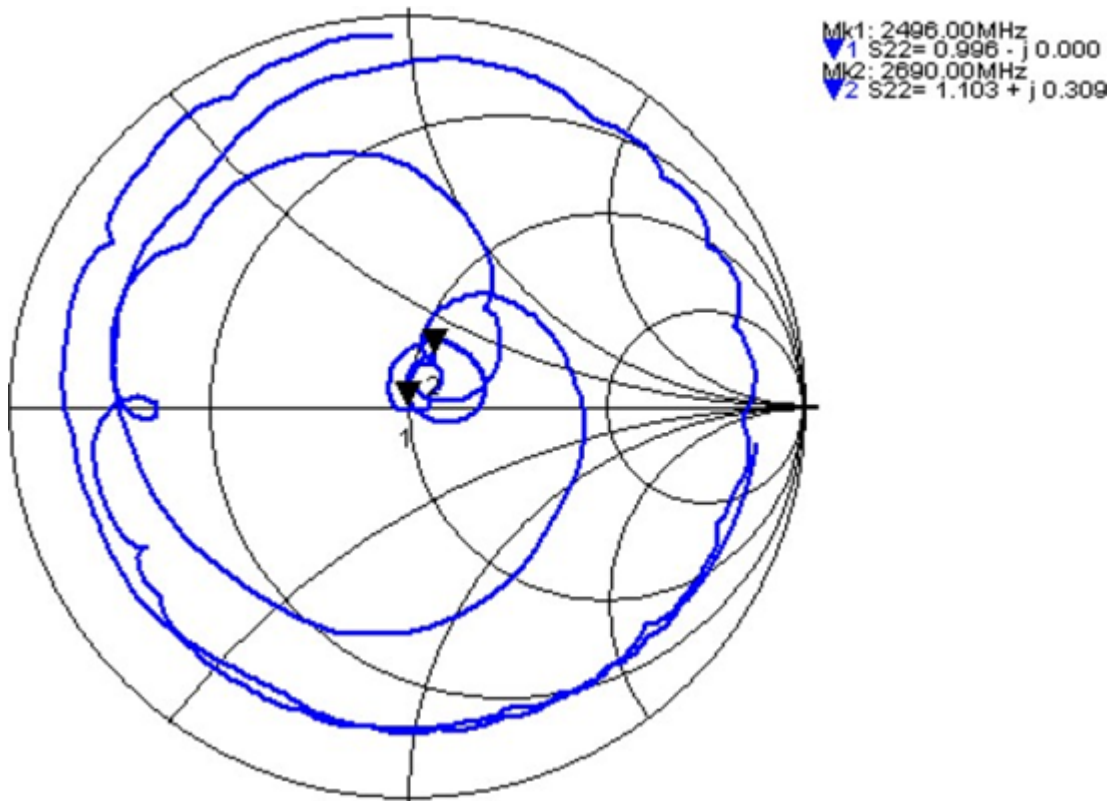
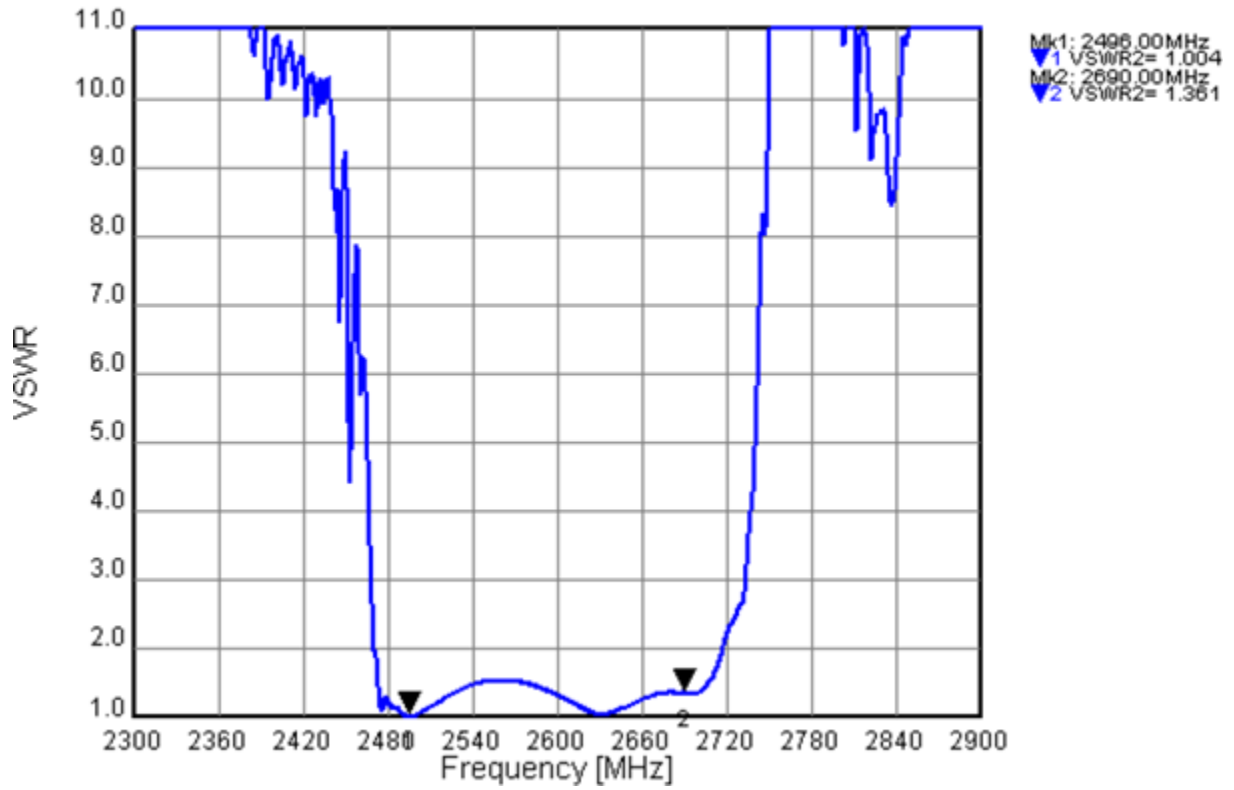
Passband



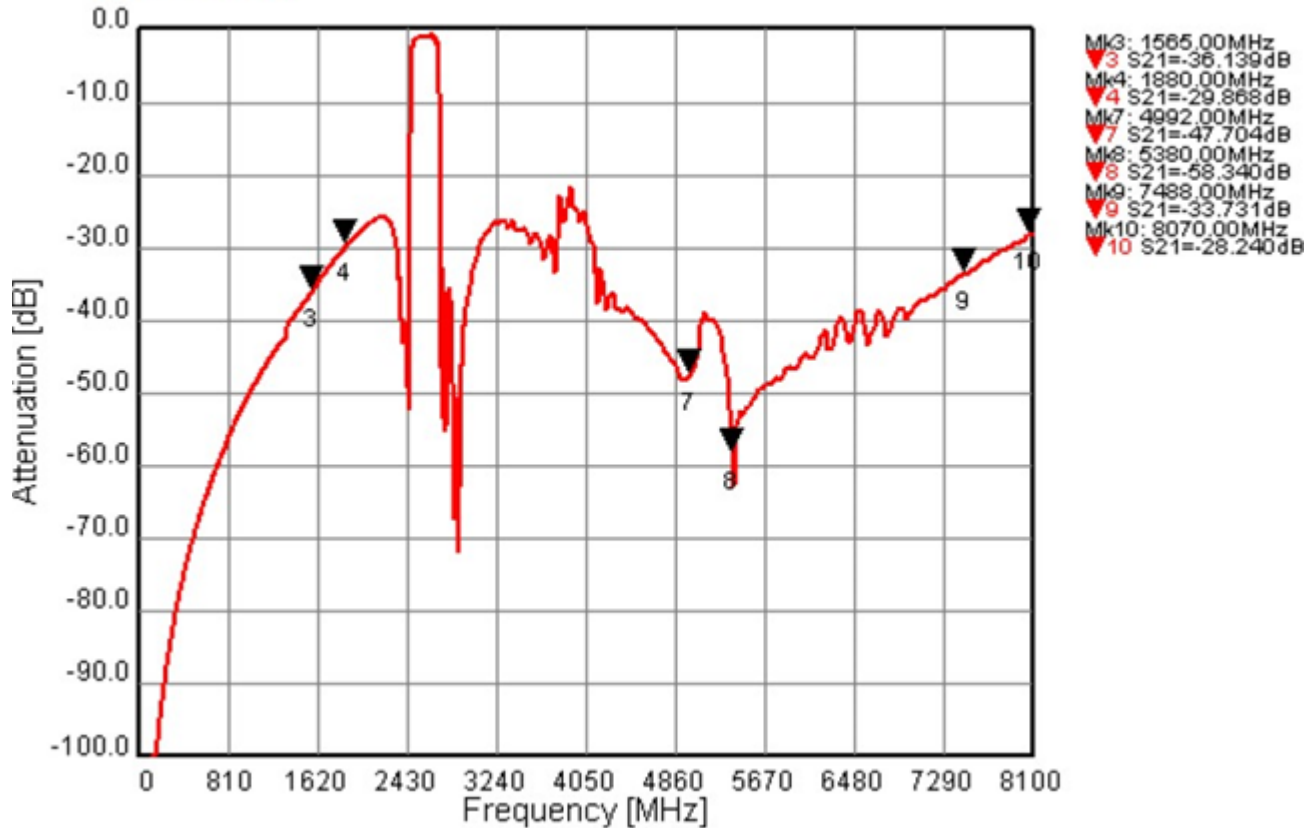
Tx/Rx Port



Ant Port



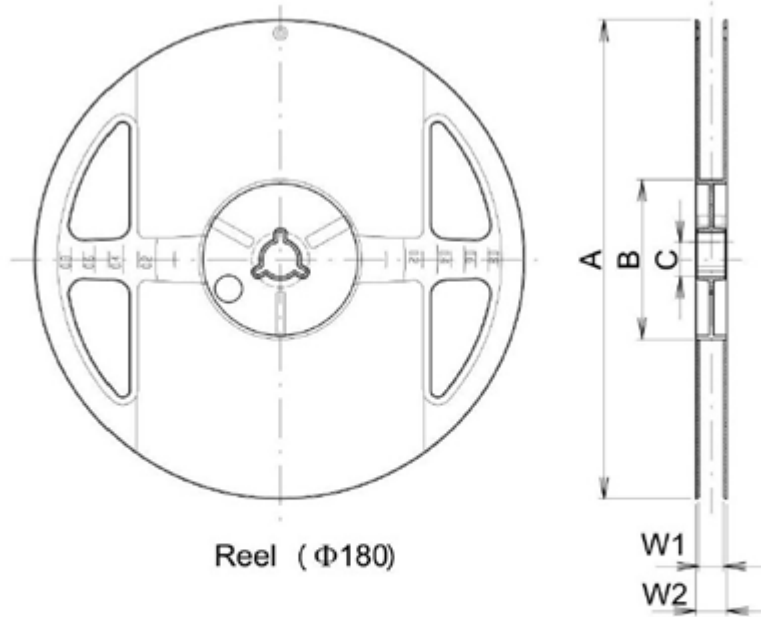
Wide span



Packing:

Reel Dimension

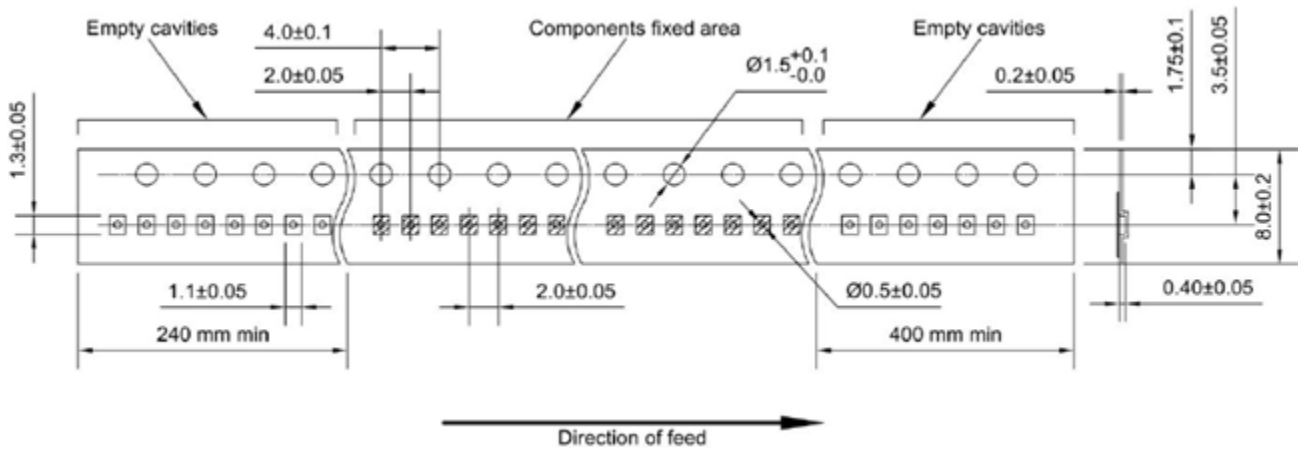
Reel Count:
7" = 10000



Order	Code	Quantity (pcs./reel)	A	B	C	W1	W2	Tape Pitch
Standard	X	10,000	φ180	φ60	φ13 ±0.2	9 +1.0/-0.0	11.4 ±1.0	2.0 ±0.05

Unit:mm

Tape Dimension



H. Recommended Solder 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 245~260°C peak (min. 10sec).
4. Time : 2 times.

