

SAW Duplexer 1880.0 / 1960.0MHz

Model: TF0105A

Part No: MP06484

Rev. No: 1

A. MAXIMUM RATING:

Electrostatic Sensitive Device (ESD)

Operating Temperature: -30°C to +85°C

B. ELECTRICAL CHARACTERISTICS:

1. Terminating impedance (Tx Port): 50Ω (Single-ended)
2. Terminating impedance (Rx Port): 50Ω (Single-ended)
3. Terminating impedance (Ant Port): 50 / /4.7nHΩ (Single-ended)

Tx to ANT

Parameters Description		Unit	Min.	Typ.	Max.	Remarks
Insertion Loss	1850.4 ~ 1909.6MHz	dB(*1)	-	2.2	3.0	-20 to +85°C
	1850.6 ~ 1909.4MHz		-	2.2	3.0	
Amplitude Ripple		dB	-	1.1	2.0	
VSWR	ANT	-	-	1.6	2.0	
	Tx			1.7		
Input Power		dBm	+29dBm, Ta = +50°C 50kh.CW			
Attenuation:						
1570 ~ 1580MHz		dB	40	49	-	
1930.4 ~ 1989.6MHz		dB	44	51	-	-20 to +85°C
1930.6 ~ 1989.4MHz		dB	42	51	-	
3700 ~ 3820MHz		dB	22	32	-	
5550 ~ 5730MHz		dB	15	26	-	

(*1) Specification of insertion loss excludes loss that comes from the test board.(approximately 0.15dB)

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ANT to Rx

Parameters Description		Unit	Min.	Typ.	Max.	Remarks	
Insertion Loss	1930.4 ~ 1989.6MHz	dB(*1)	-	2.7	3.5	-20 to +85°C	
	1930.6 ~ 1989.4MHz		-	2.7	3.5		
Amplitude Ripple		1930.4 ~ 1989.6MHz	dB	-	1.2	2.2	
VSWR	ANT	1930.4 ~ 1989.6MHz	-	-	1.7	2.0	
	Rx		-	-	1.7	2.0	
Attenuation:							
1850.4 ~ 1909.6MHz		dB	45	53	-	-20 to +85°C	
1850.6 ~ 1909.4MHz		dB	45	53	-		

(*1) Specification of insertion loss excludes loss that comes from the test board.(approximately 0.15dB)

Tx to Rx

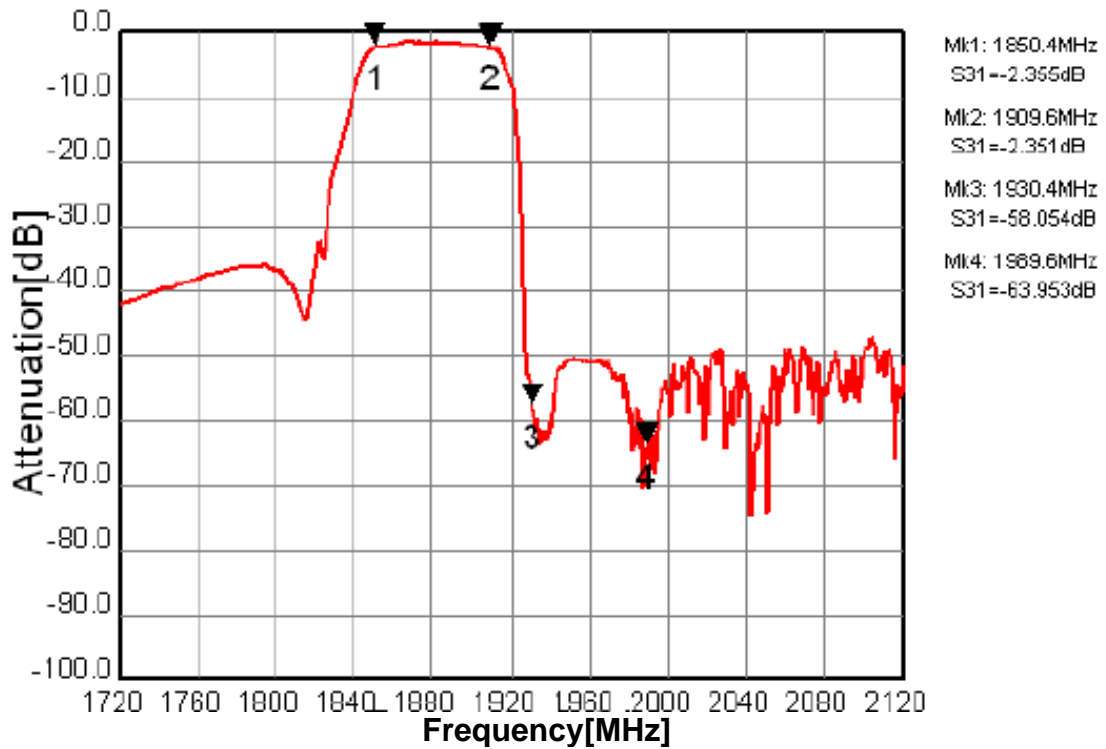
Isolation	1850.4 ~ 1909.6MHz	dB	51	55	-	-20 to +85°C
	1850.6 ~ 1909.4MHz	dB	51	55	-	
	1930.4 ~ 1989.6MHz	dB	48	52	-	-20 to +85°C
	1930.6 ~ 1989.4MHz	dB	47	52	-	

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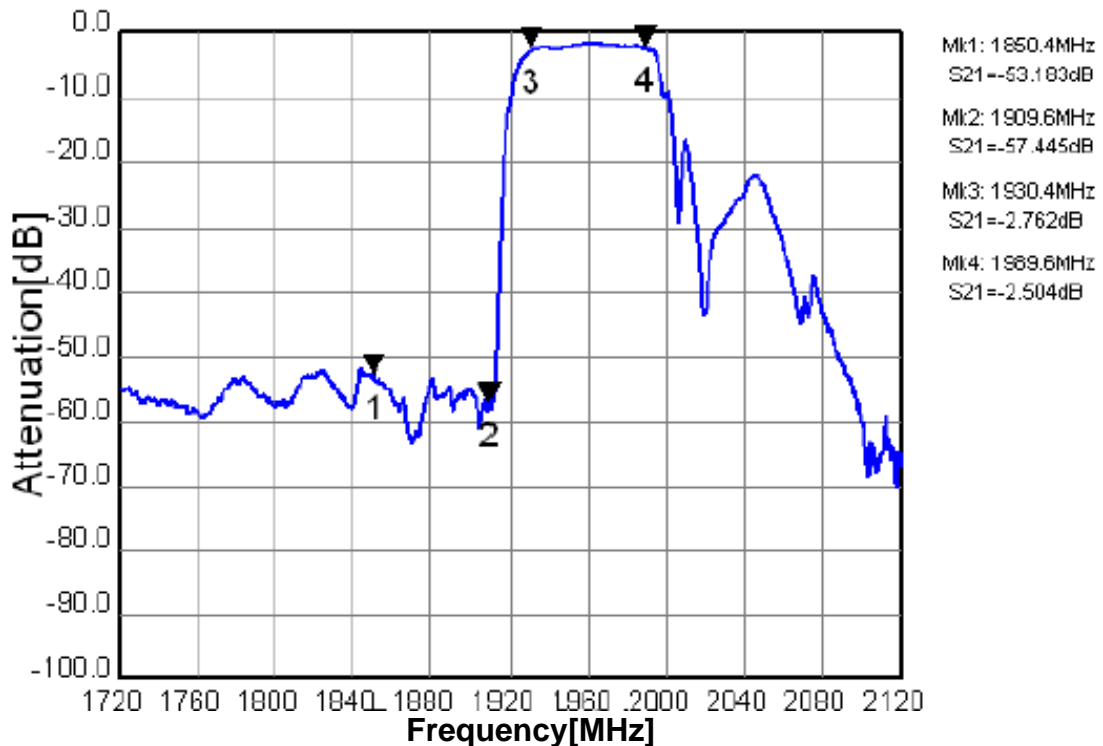
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C. FREQUENCY CHARACTERISTICS:

Tx to Ant



Ant to Rx

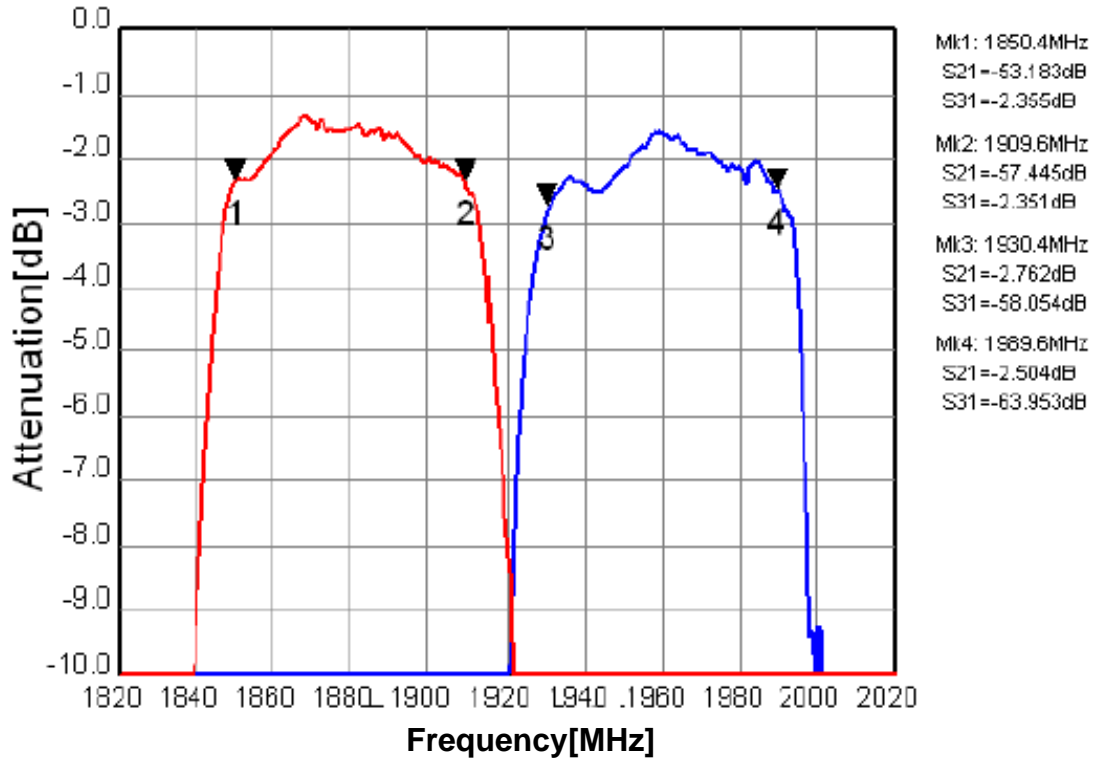


These data **include** loss that comes from the test board. (Approximately 0.15dB.)

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Tx to Ant, Ant to Rx



Tx to Rx Isolation

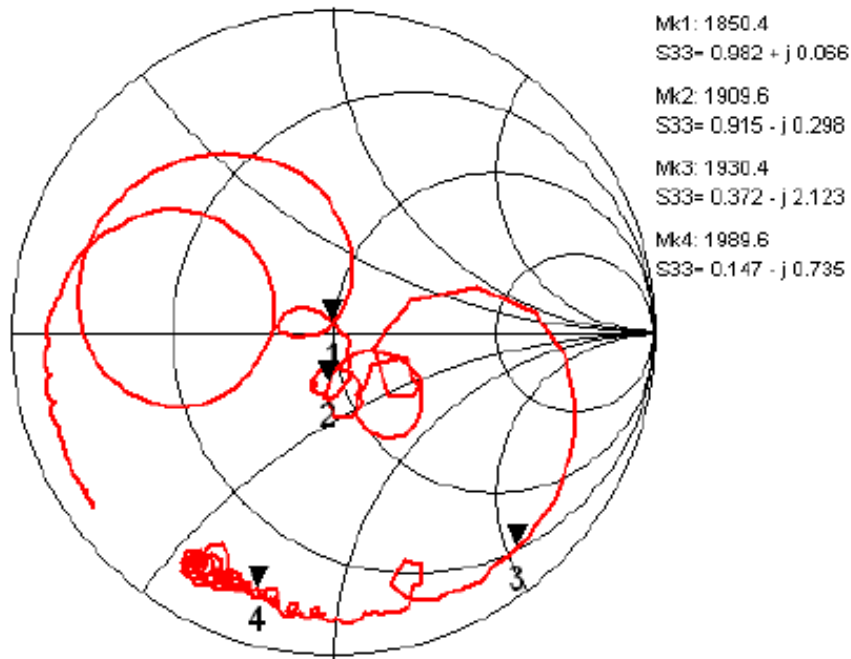
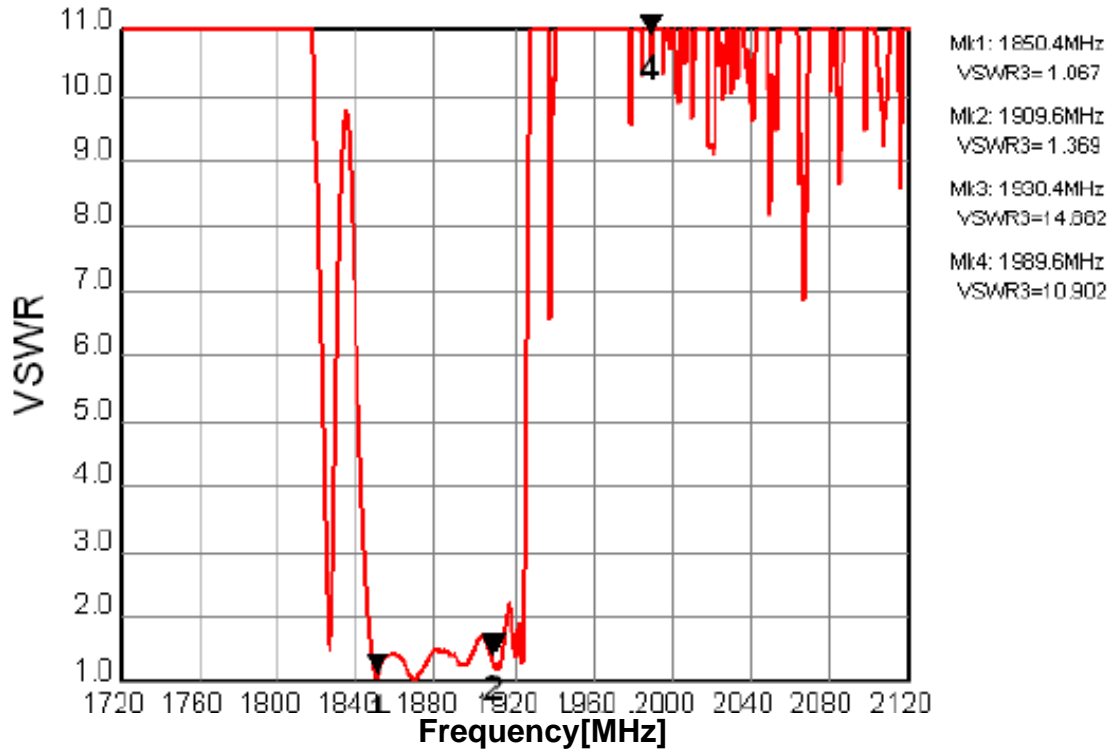


These data include loss that comes from the test board. (Approximately 0.15dB.)

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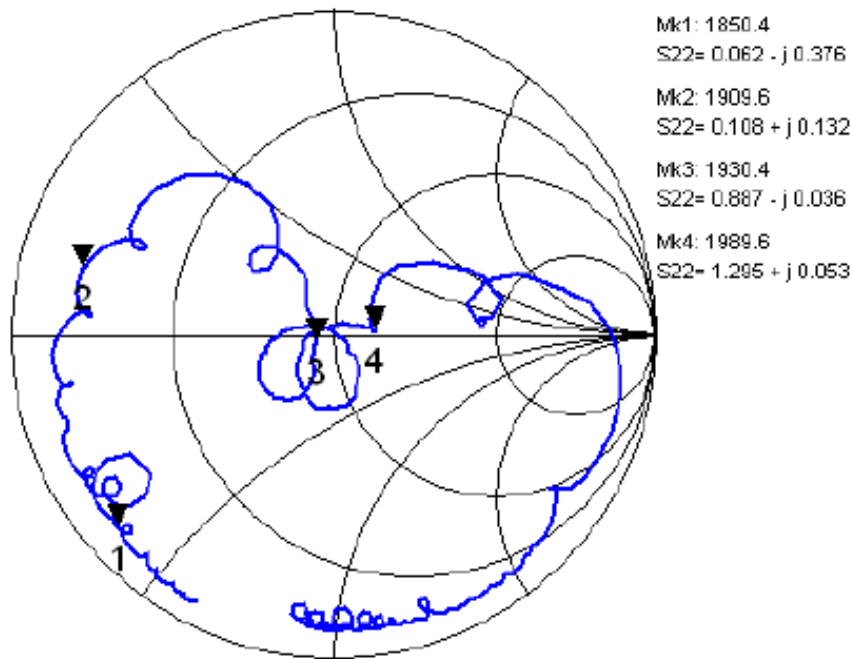
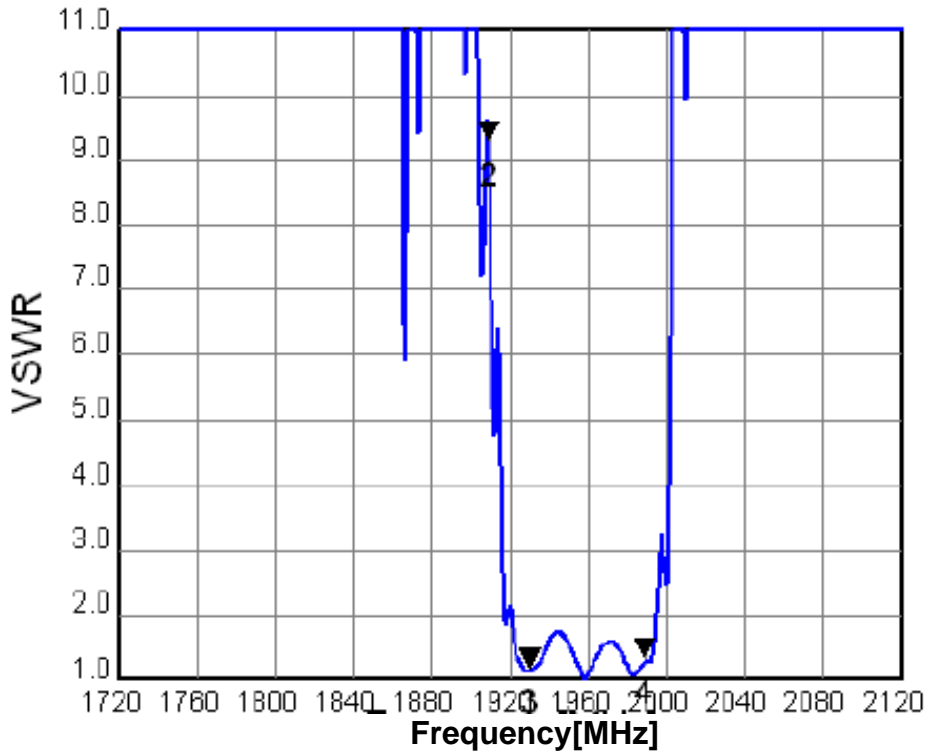
Tx Port



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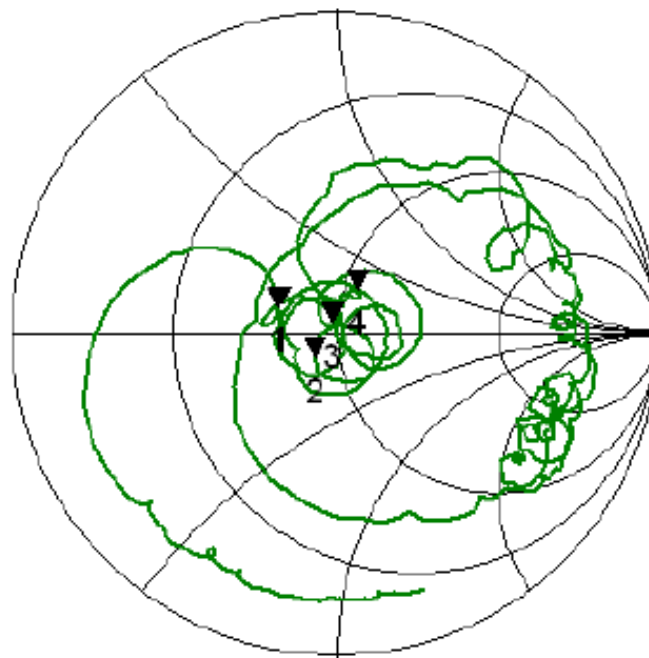
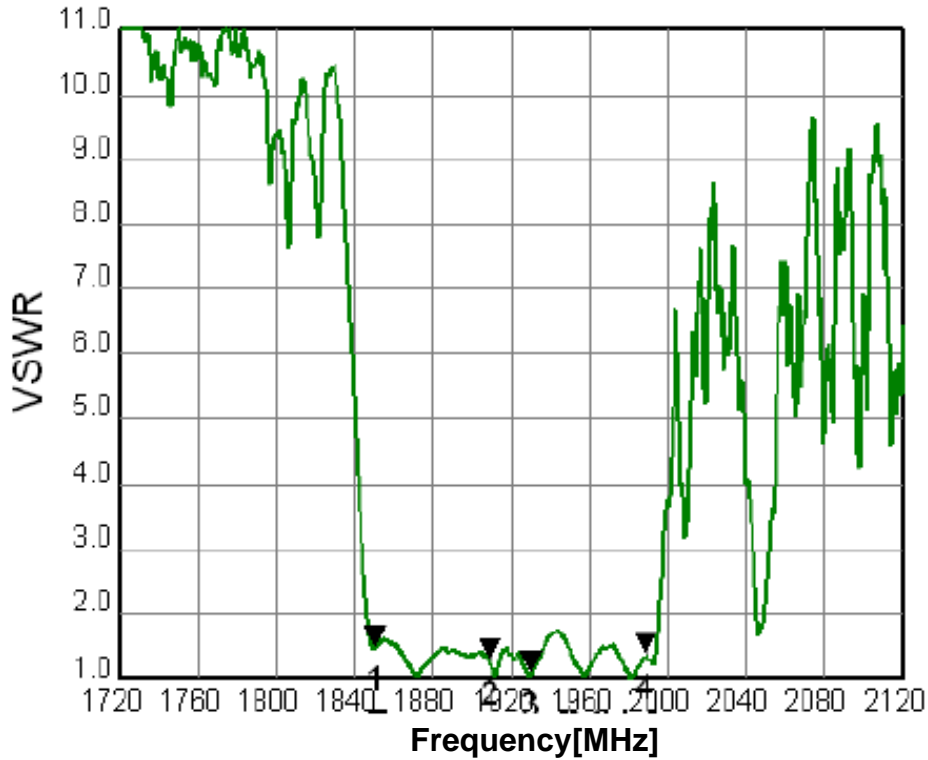
Rx Port



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Ant Port

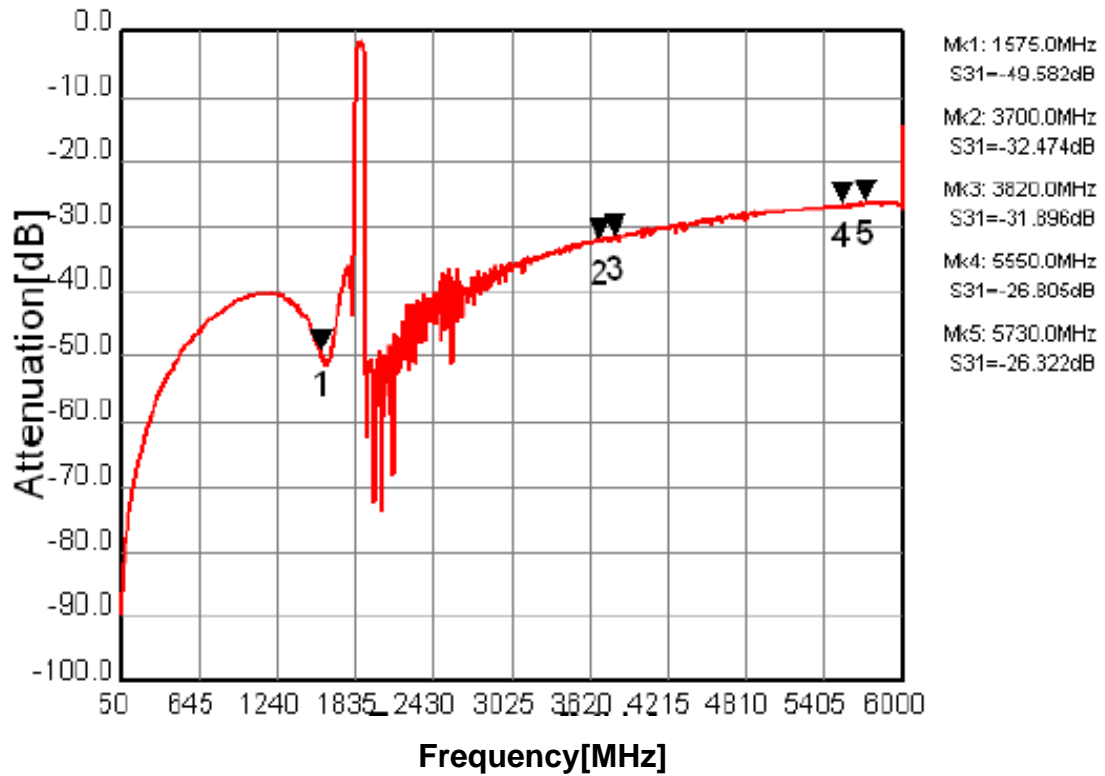


Mk1: 1850.4	S11= 0.690 + j 0.106
Mk2: 1909.6	S11= 0.857 - j 0.157
Mk3: 1930.4	S11= 0.970 + j 0.049
Mk4: 1989.6	S11= 1.107 + j 0.300

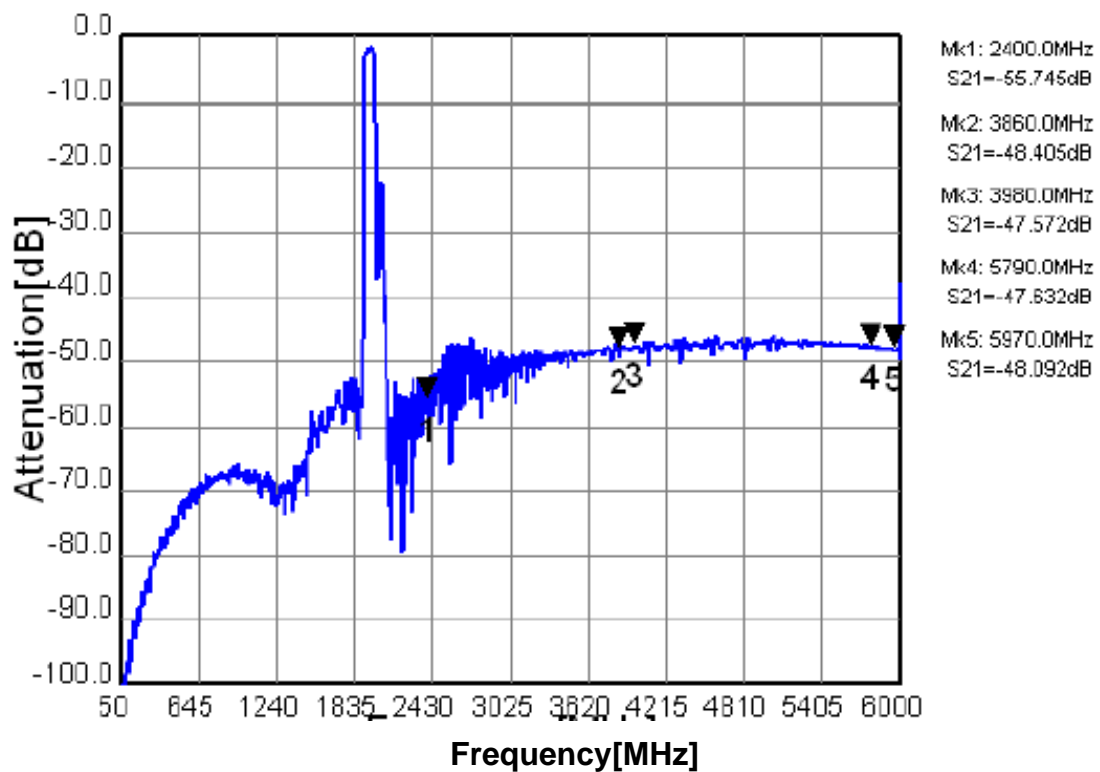
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Tx to Ant (Wide span)



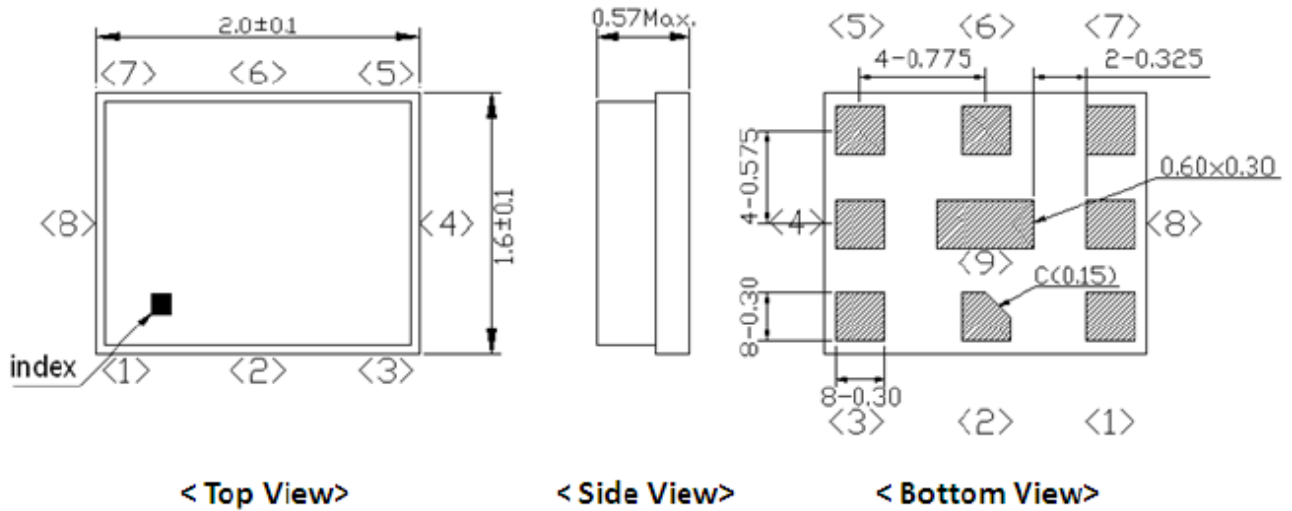
Ant to Rx (Wide span)



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D. OUTLINE DRAWING:



Unit: mm

Pin Configuration

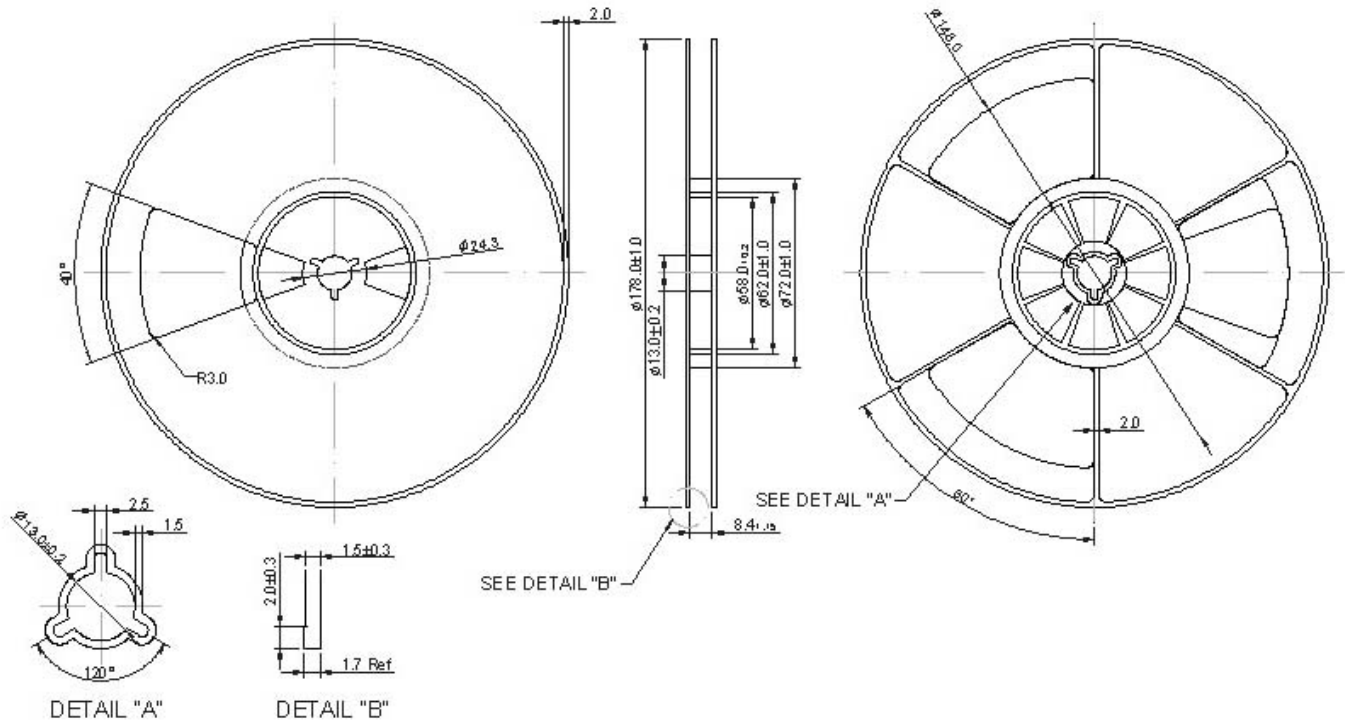
Pin No.	Pin name	Description
1	Rx	Receiver Pin
2	GND	Ground Pin
3	Tx	Transmitter Pin
4	GND	Ground Pin
5	GND	Ground Pin
6	ANT	Antenna Pin
7	GND	Ground Pin
8	GND	Ground Pin
9	GND	Ground Pin

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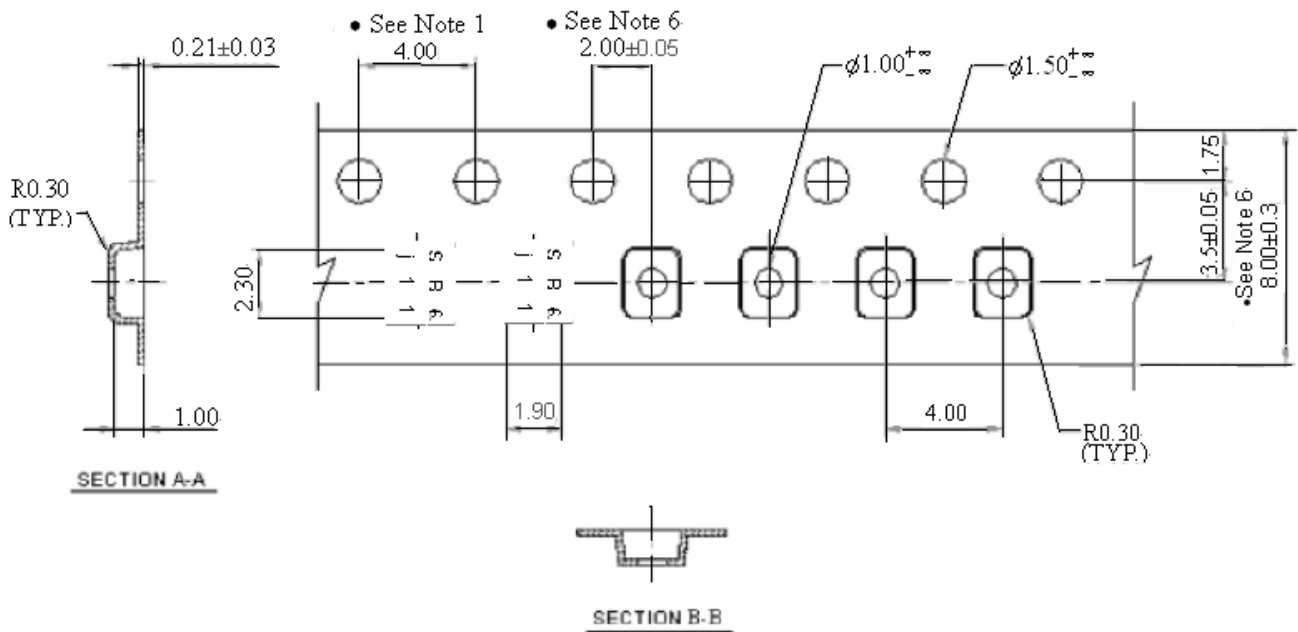
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G. PACKING:

1. Reel Dimension



2. Tape Dimension



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H. RECOMMENDED REFLOW PROFILE:

