



* Pb Free Part



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	GPS+GLONASS+Compass	Date	Dec. 19, 2018
Part Number	F6QA1G582H2JM	Version 2.3bA	Final

Electrical Specification

Table-1

Item		Condition (MHz)	Specification			Unit	Remarks
			Min.	Typ.	Max.		
Insertion loss(*1)		1574.42 - 1576.42	-	1.2	1.7	dB	
		1597.55 - 1605.89	-	1.8	2.5	dB	
		1559.05 - 1563.14	-	1.7	2.5	dB	
Ripple		1574.42 - 1576.42	-	0.1	0.8	dB	
		1597.55 - 1605.89	-	0.6	1.4	dB	
		1559.05 - 1563.14	-	0.2	1.2	dB	
VSWR	Input	1574.42 - 1576.42	-	1.5	2.1	-	
		1597.55 - 1605.89	-	1.4	2.0	-	
		1559.05 - 1563.14	-	1.5	2.0	-	
	Output	1574.42 - 1576.42	-	1.5	2.1	-	
		1597.55 - 1605.89	-	1.4	2.0	-	
		1559.05 - 1563.14	-	1.5	2.0	-	
Group delay ripple		1574.42 - 1576.42	-	1.0	6.0	ns	
		1597.55 - 1605.89	-	4.0	12.5	ns	
		1559.05 - 1563.14	-	5.0	16.0	ns	
Absolute attenuation		699 - 716	43	47	-	dB	
		777 - 787	45	46.5	-	dB	
		814 - 849	45	46.5	-	dB	
		880 - 915	45	46.5	-	dB	
		1427.9 - 1446.9	45	53	-	dB	
		1447.9 - 1462.9	45	54	-	dB	
		1710 - 1785	47	54	-	dB	
		1850 - 1915	47	54	-	dB	
		1920 - 1980	47	54	-	dB	
		2400 - 2500	45	50	-	dB	
2500 - 2570	45	50	-	dB			



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Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Terminating Impedance	Input port	50			Ω	
	Output port	50			Ω	
Operating Temperature		-30 to +85			$^{\circ}\text{C}$	
Maximum DC in all ports		-	-	5	VDC	Device only
DC impedance to ground		100			M Ω	Device only
Device size (L typ. xW typ. xH max.)		1.1 x 0.9 x 0.5			mm	

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



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Dimensions

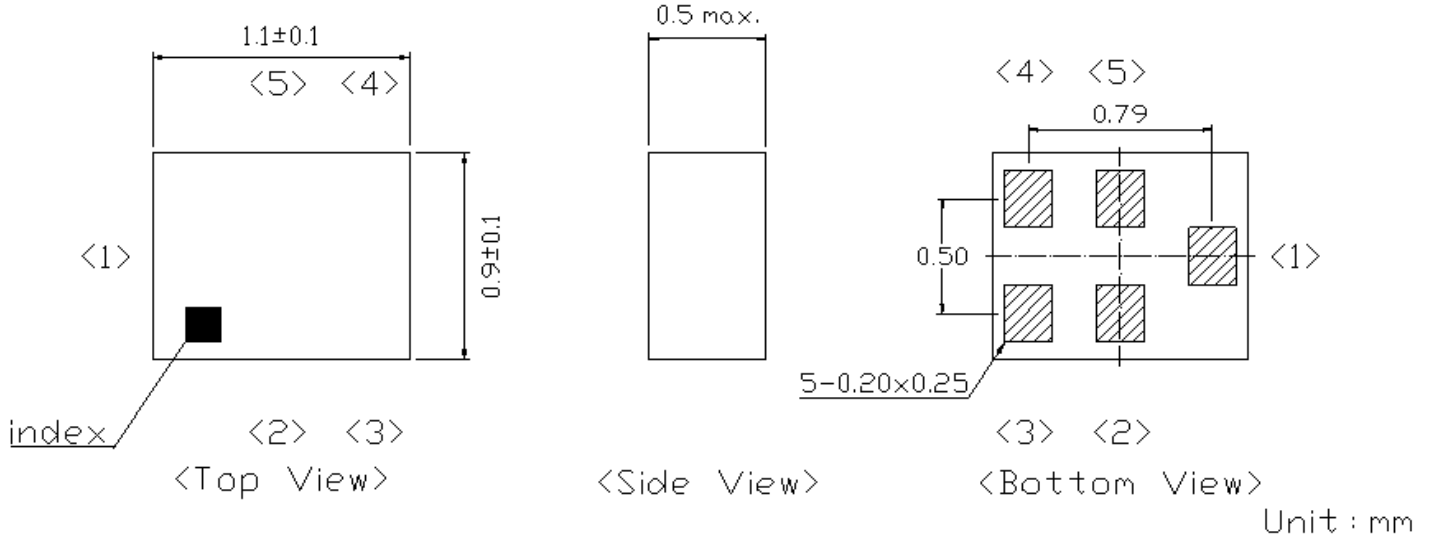


Figure-1

Pin Configuration

Table-2

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



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Evaluation Circuit

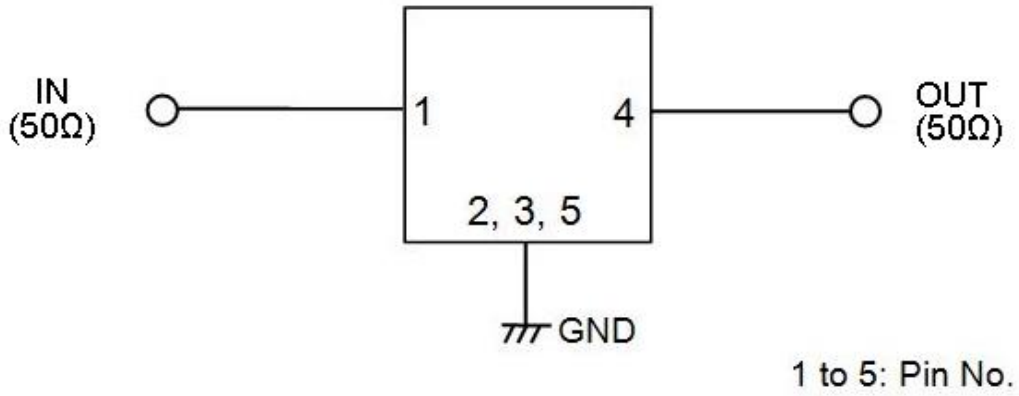


Figure-2

Recommended Foot Print Pattern

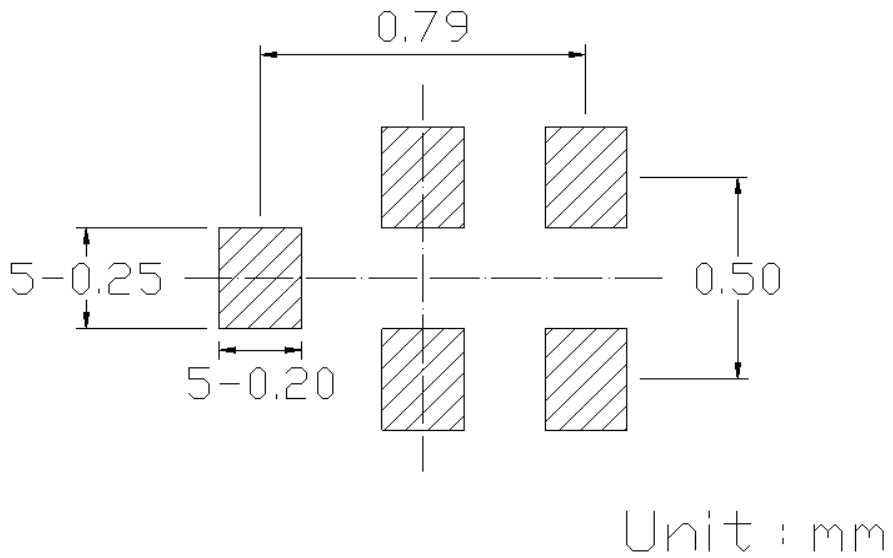


Figure-3



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Electrical Characteristics

Passband

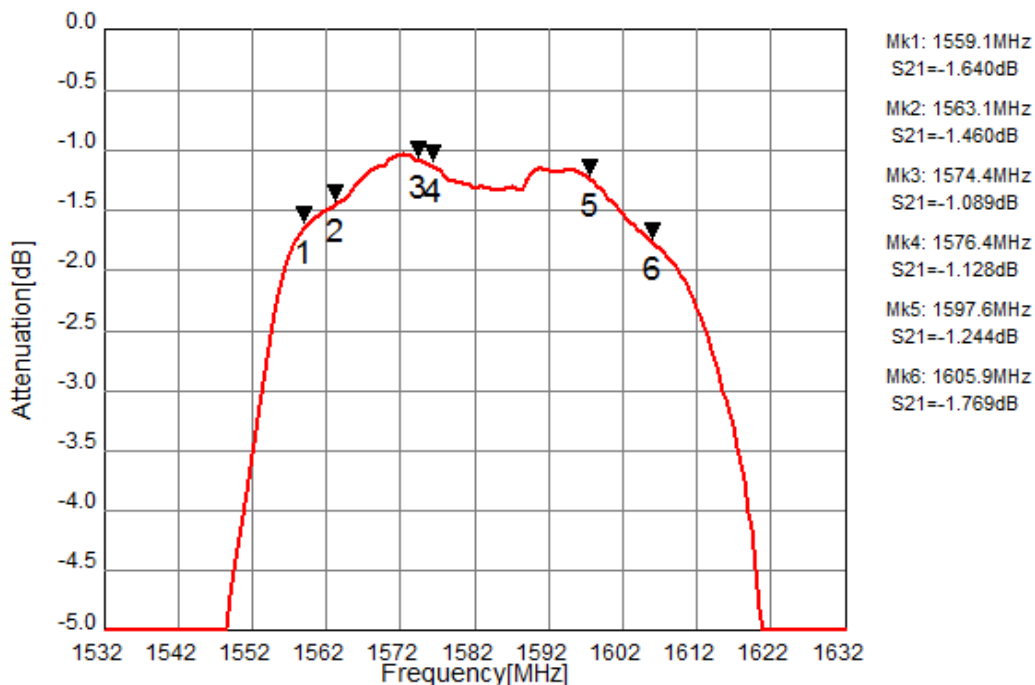
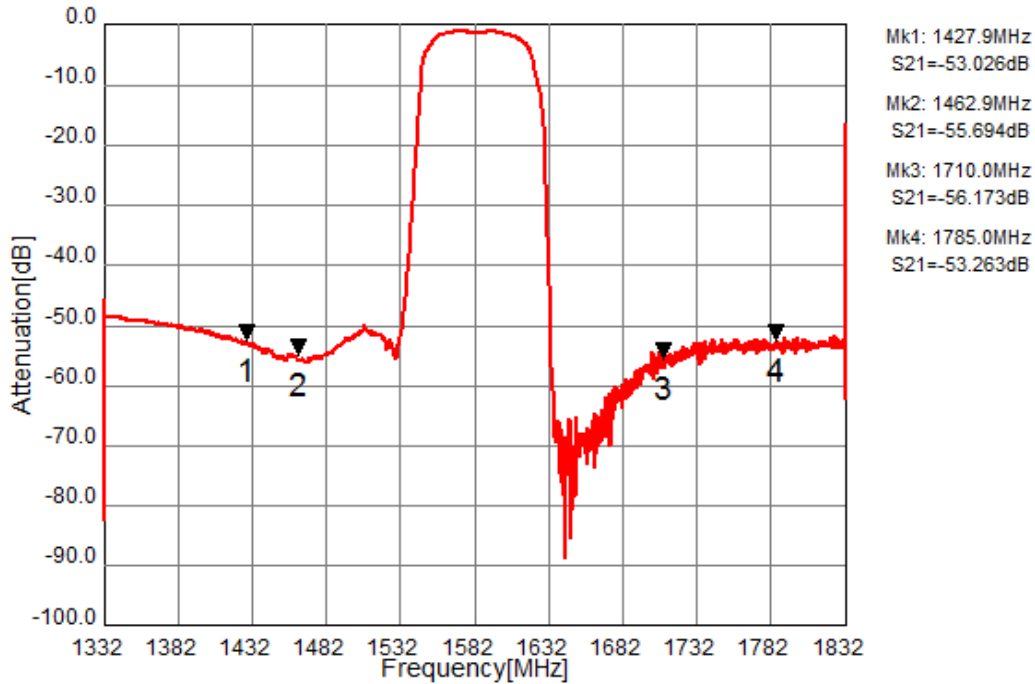


Figure-4-1

These data exclude loss that comes from the test board.

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Input Port

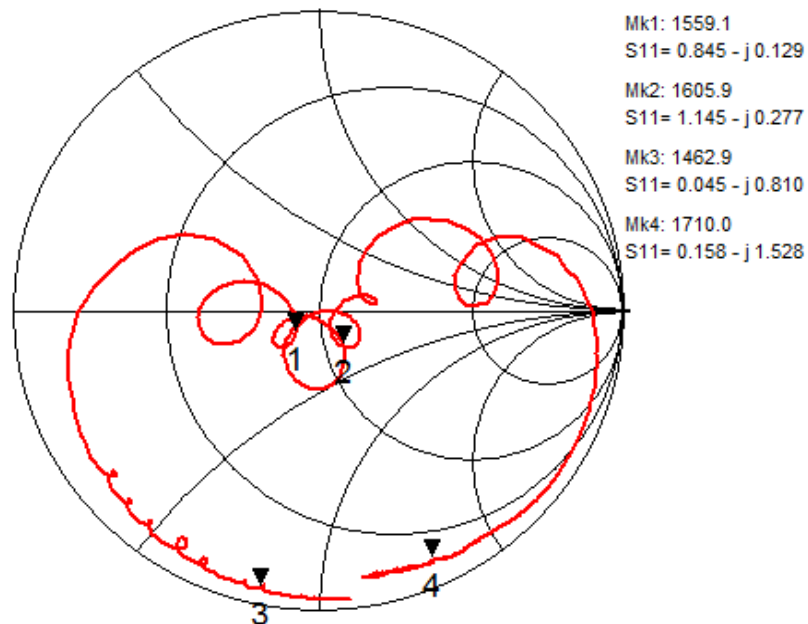
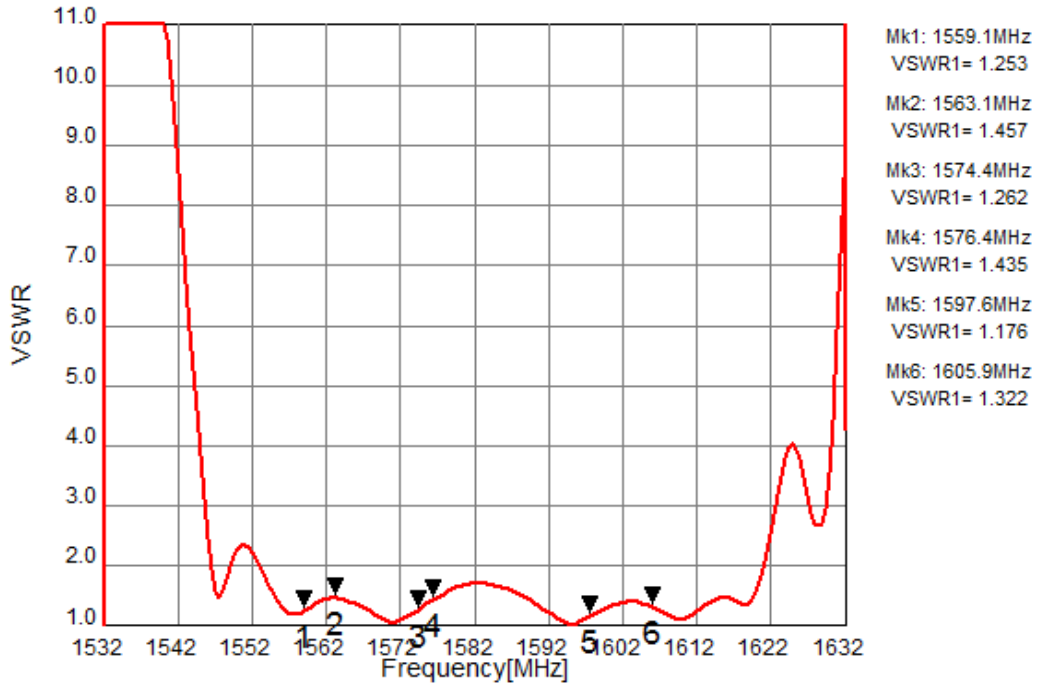


Figure-4-2

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Output Port

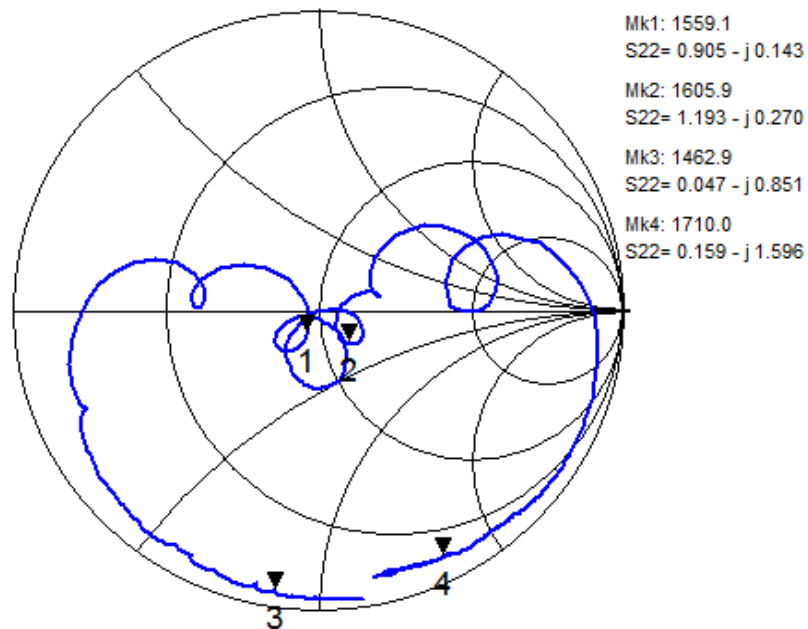
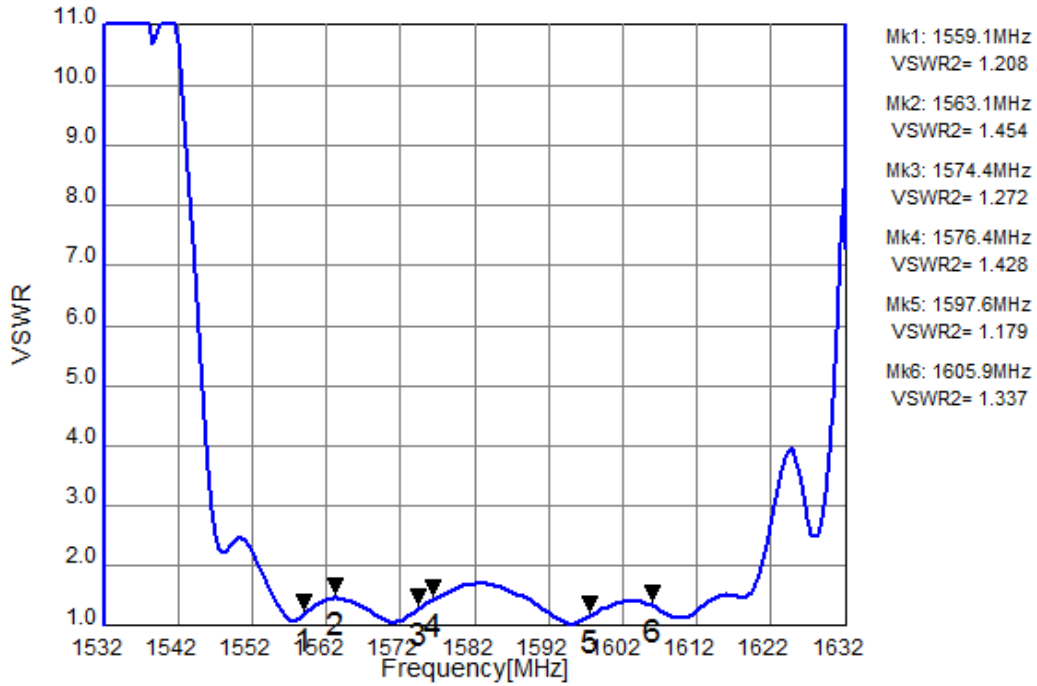


Figure-4-3

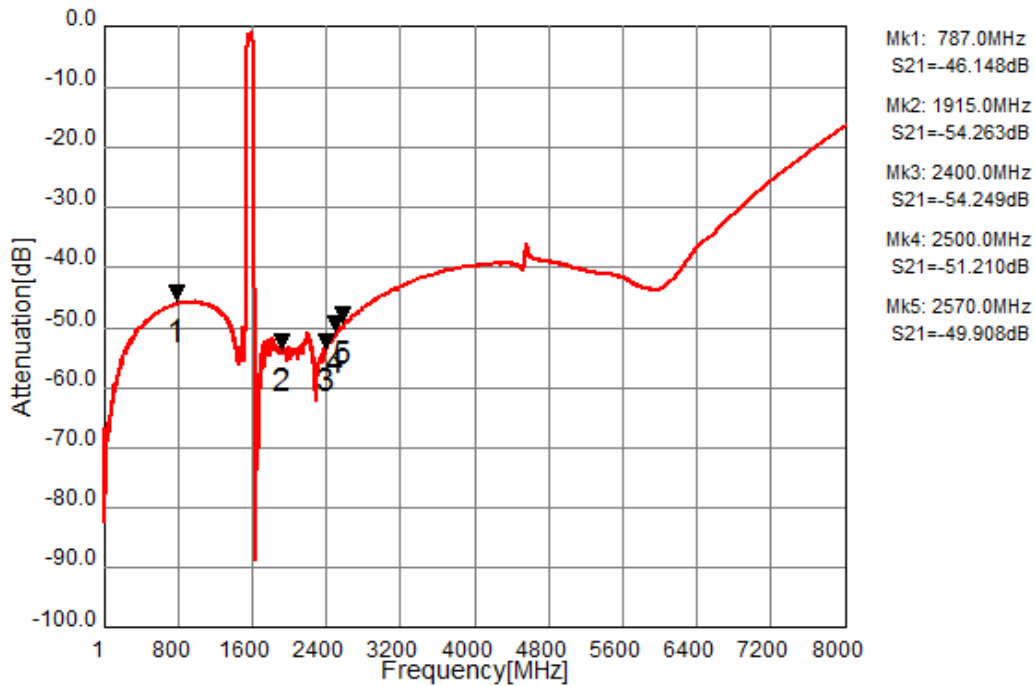
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Wide span



Group delay

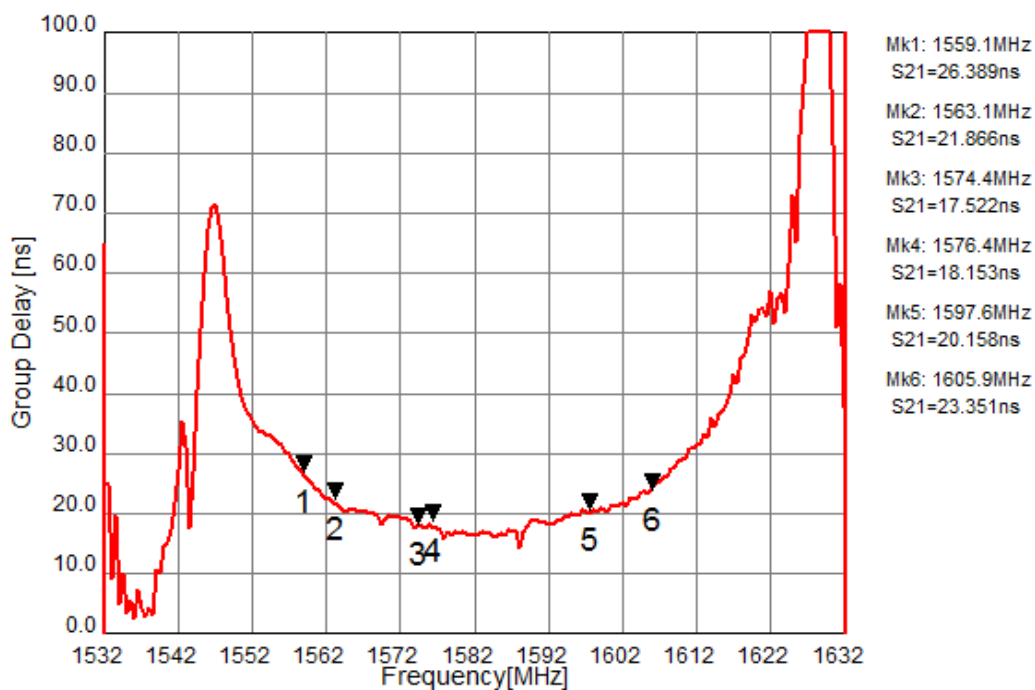


Figure-4-4

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Ordering Code

Standard Ordering Code	Packing	Reel size	Status
F6QA1G582H2JM-X	Tape & Reel	10,000 pcs.	MP

Option Ordering Code	Packing	Reel size	Status
F6QA1G582H2JM-XA	Tape & Reel	less than 10,000 pcs.	MP
F6QA1G582H2JM-Y	Tape & Reel	15,000 pcs.	MP
F6QA1G582H2JM-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QA1G582H2JM-J	Tape & Reel	5,000 pcs.	MP
F6QA1G582H2JM-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QA1G582H2JM-Q	Bulk	few pcs.	MP

*Minimum order quantity (MOQ) is assigned for each inquiry, Please contact to Sales Representatives.

*MP : Mass Production

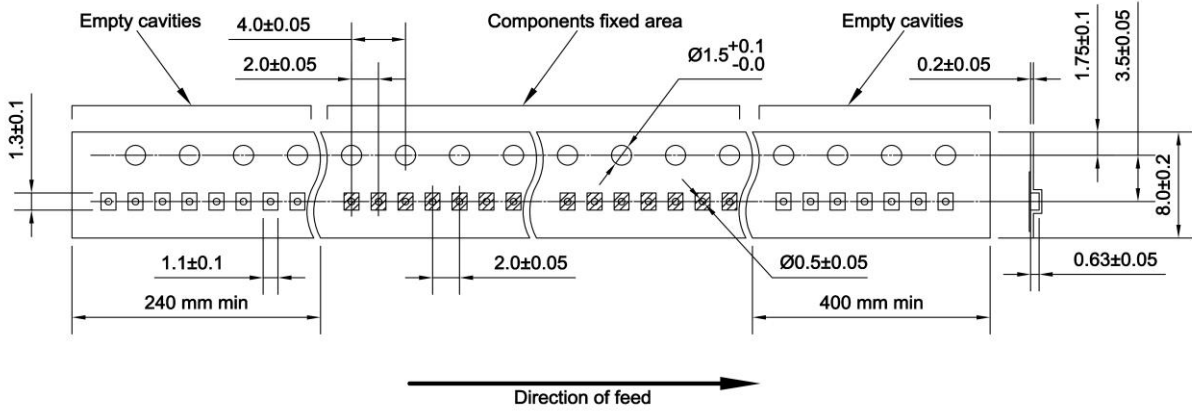


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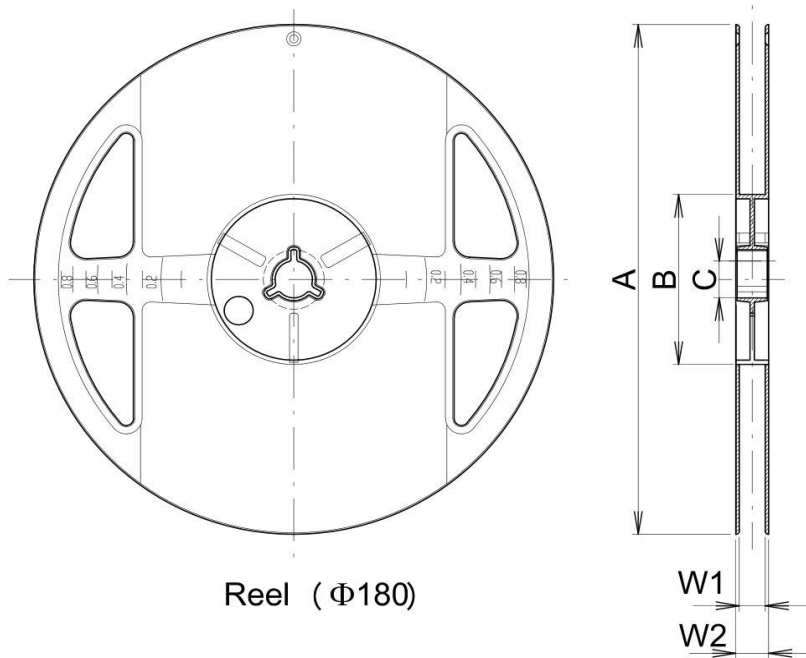
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Tape and Reel Information

Dimensions of Tape (Standard)



Dimensions of Reel



Order	Code	Quantity (pcs./reel)	A	B	C	W1	W2	Tape Pitch
Standard	X	10,000	$\phi 180$	$\phi 60$	$\phi 13 \pm 0.2$	$9^{+1.0/-0.0}$	11.4 ± 1.0	2.0 ± 0.05
Option	Y	15,000	$\phi 330$	$\phi 100$	$\phi 13 \pm 0.2$	9.4 ± 1.0	13.4 ± 1.0	4.0 ± 0.1
Option	J	5,000	$\phi 180$	$\phi 60$	$\phi 13 \pm 0.2$	$9^{+1.0/-0.0}$	11.4 ± 1.0	4.0 ± 0.1

Unit:mm



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Notice

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Please do not incorporate our products into any equipment requiring high levels of safety and/or reliability (e.g., aerospace equipment, aviation equipment, medical equipment classified as Class IV by IMDRF, nuclear control equipment, undersea equipment, military equipment).
When our products are used even for high safety and/or reliability-required devices or circuits of general electronic equipment, it is strongly recommended to perform a thorough safety evaluation prior to use of our products and to install a protection circuit as necessary.
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