



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.		
System	Band II Duplexer	Date	March 31, 2010	
Part Number	FAR-D6NH-1G9600-M1Z9	Version 1.2dd		

Table 1. Electrical Specification

ltom		Condition	Sı	oecificati	on	11.11		
	Item		(MHz)	Min	Тур	Max	Unit	Remarks
Tx	Insertion	loss	1850.4~1909.6	-	2.2	3.1	dB	-20 to +85 °C
to			1850.6~1909.4	-	2.2	3.1	(*1)	
ANT	Ripple		1850.4~1909.6	-	0.8	2.2	dB	
	VSWR	Ant	1050 4 1000 6	-	1.6	2.0		
		Tx	1850.4~1909.6	-	1.9	2.3	-	
	Input Power		1850.4~1909.6	+29d	Bm,Ta=	+50°C	dBm	
			1830.47 1909.0	ţ	50kh,CV	V	иын	
	Absolute atte	enuation	1570~1580	33	37	-	dB	
			1930.4~1989.6	40	49	-	dB	-20 to +85 °C
			1930.6~1989.4	40	49	-	иь	
			3700~3820	20	27	-	dB	
			5550~5730	15	22	-	dB	
ANT	Insertion loss		1930.4~1989.6	-	3.1	3.7	dB	-20 to +85 °C
to			1930.6~1989.4	-	3.1	3.7	(*1)	
Rx	Ripple	T	1930.4~1989.6	-	1.4	2.2	dB	
	VSWR	Ant	1930.4~1989.6	-	1.6	2.0	-	
		Rx	1930.4~1989.6	-	1.7	2.1	-	
	Absolute atte	enuation	1850.4~1909.6	45	52	-	dB	-20 to +85 °C
			1850.6~1909.4	45	52		u.b	
Tx to			1850.4~1909.6	51	55	-	dB	-20 to +85 °C
Rx	Isolation		1850.6~1909.4	51	55	_		
	isolation		1930.4~1989.6	45	50	-	dB	-20 to +85 °C
			1930.6~1989.4	45	50	-		
Terminat	ting Impedanc	е	Tx port		50		Ohm	Single-ended
			Rx port		50		Ohm	Single-ended
	Į,		Ant port		50		Ohm	Single-ended
Operatin	Operating Temperature		-	30 to +8	5	°C		
Device s	ize (L typ. x W	typ. x H m	ax.)	2.5	x 2.0 x (0.65	mm	

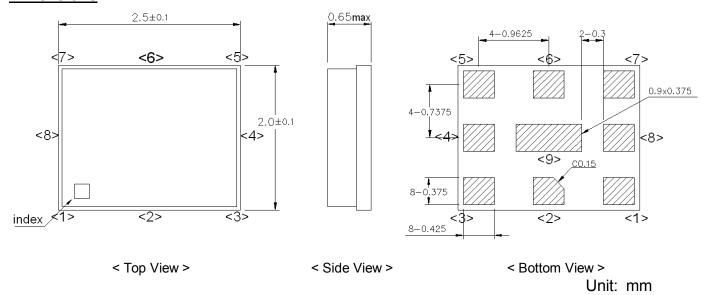
^(*1) Specification of insertion loss excludes loss that comes from the test board. (Approximately 0.15dB)





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Dimensions



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

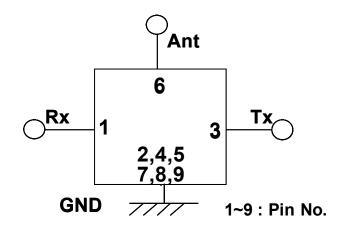
Figure 1. Dimensions and Pin assignment





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Evaluation Circuit



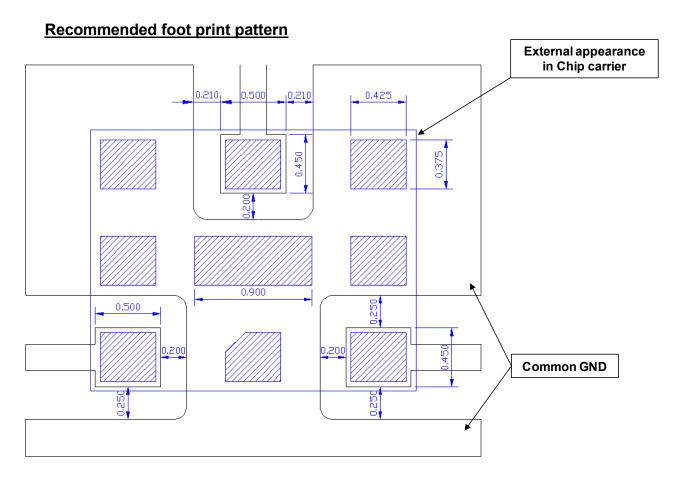


Figure 2. Recommended foot print pattern

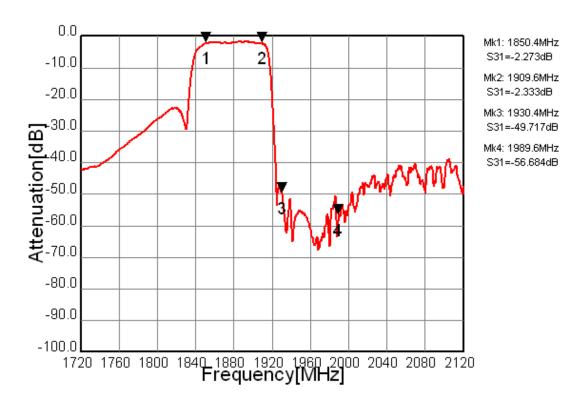
Tx to Ant



Unit: mm



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Ant to Rx

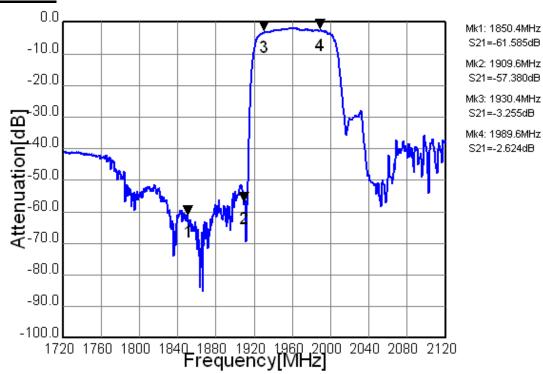


Figure 3-1. Electrical Characteristics

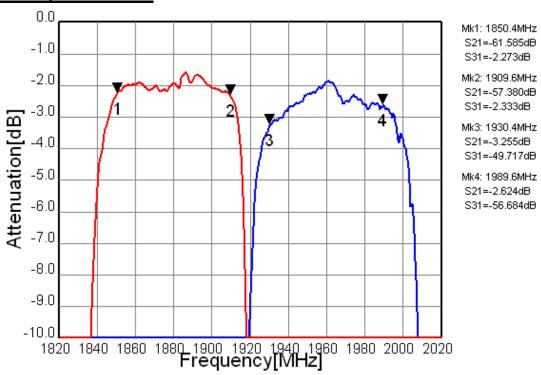
These data include loss that comes from the test board. (Approximately 0.15dB)





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Tx to Ant, Ant to Rx



Tx to Rx Isolation

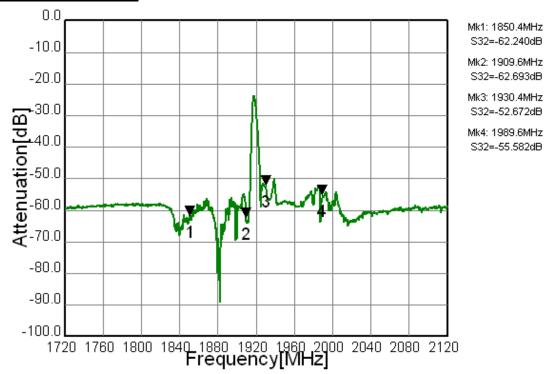


Figure 3-2. Electrical Characteristics

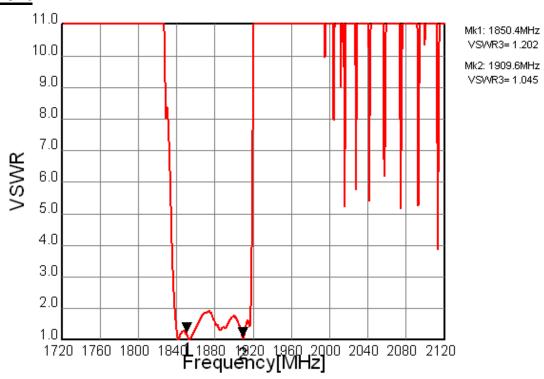
These data include loss that comes from the test board. (Approximately 0.15dB)





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Tx Port



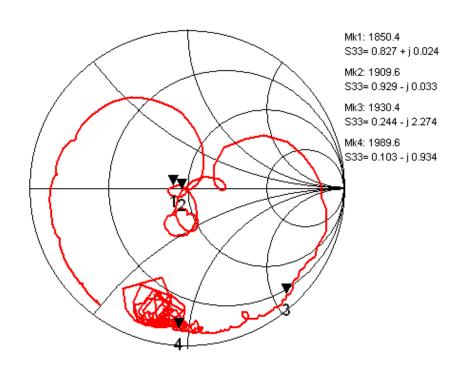


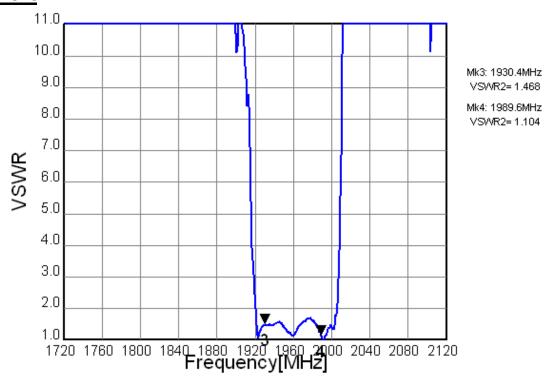
Figure 3-3. Electrical Characteristics





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Rx Port



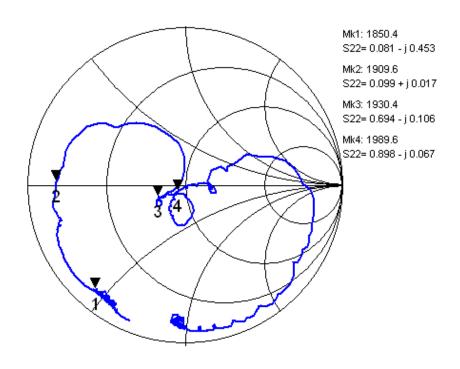


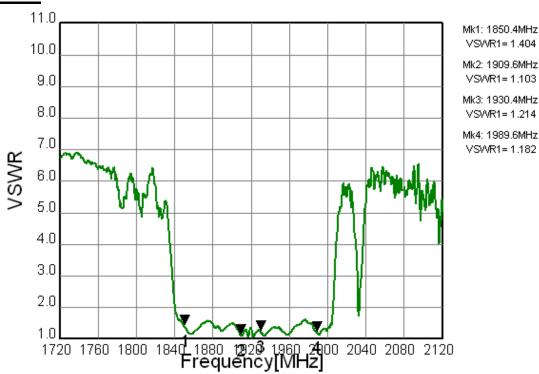
Figure 3-4. Electrical Characteristics





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Ant Port



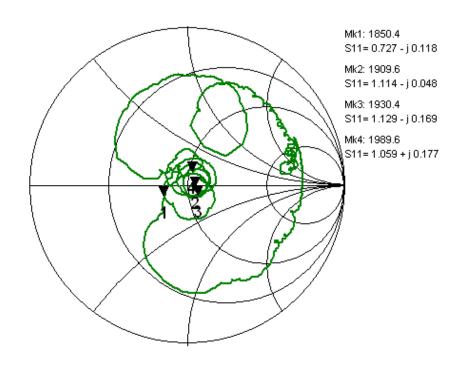


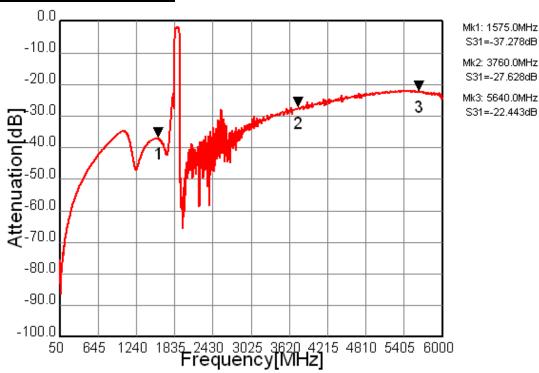
Figure 3-5. Electrical Characteristics





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Tx to Ant (Wide span)



Ant to Rx (Wide span)

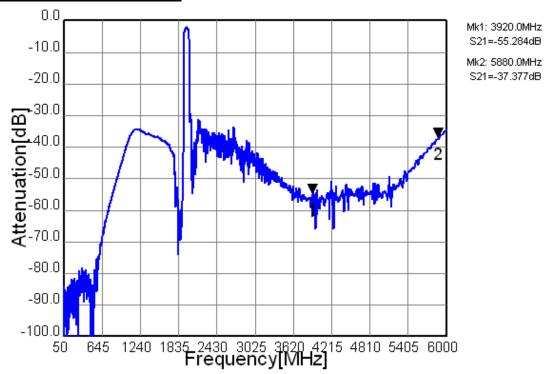


Figure 3-6. Electrical Characteristics

