



Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.		
System	W-CDMA Band II / CDMA2000 BC 1 Duplexer	Date	March 31, 2010	
Part Number	FAR-D6NF-1G9600-P1BZ	Version 2.1dd		

Table 1. Electrical Specification

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Item		Condition	Sp	ecificati	on	Unit	Remarks	
	1.0.11		(MHz)	Min	Тур	Max	OTIL	Remains
Tx	Insertion loss		1850.4~1909.6	-	2.4	3.2	dB	-20 to +85 °C
to			1850.6~1909.4	-	2.4	3.2	(*1)	
ANT	Ripple		1850.4~1909.6	-	1.0	2.1	dB	
	VSWR	ANT	1050 / 1000 6	-	1.6	2.0	-	
		Tx	1850.4~1909.6	-	1.6	2.0	-	
	Input Power		1850.4~1909.6	+29dE	3m, Ta=-	+50ºC,	dD.co	
			1650.4~1909.0	Ę	50kh, CV	V	dBm	
	Absolute atte	nuation	1570~1580	38	43	-	dB	
			1930.4~1989.6	42	55	-	dB	-20 to +85 °C
			1930.6~1989.4	39	55	-	dB	
			3700~3820	25	31	-	dB	
			5550~5730	17	23	-	dB	
ANT	Insertion loss		1930.4~1989.6	-	3.4	4.0	dB	-20 to +85 °C
to			1930.6~1989.4	-	3.4	4.0	(*1)	
Rx	Ripple		1930.4~1989.6	-	1.3	2.2	dB	
	Phase balance	e	1930.4~1989.6	-10	-4 +2	+10	deg	
	Amplitude ba	lance	1930.4~1989.6	-1.3	-0.5 +0.5	+1.3	dB	
	VSWR	Ant	1000 1 1000 0	-	1.6	2.1	-	
		Rx	1930.4~1989.6	-	2.1	2.5	ı	
	Absolute atte	nuation	1850.4~1909.6	45	51	-	dB	-20 to +85 °C
			1850.6~1909.4	46	51	-	dB	
Tx to	Isolation		4050 4 4000 6	52	58	-	dB	-20 to +85 °C
Rx			1850.4~1909.6	53	-	-	dB	+25 +/- 2 °C
			4050 0 4000 4	53	58	-	dB	
			1850.6~1909.4	53	-	-	dB	+25 +/- 2 °C
			1020 4 1000 0	48	52	-	dB	-20 to +85 °C
			1930.4~1989.6	48	-	-	dB	+25 +/- 2 °C
			1930.6~1989.4	44	52	-	dB	
			1900.0 1909.4	48	-	-	dB	+25 +/- 2 °C
Termina	ting Impedance	Э	Tx port		50		Ohm	Single-ended
			Rx port	10	00 // 27r	ηH	Ohm	Differential
	An		Ant port		50		Ohm	Single-ended
Operatin	g Temperature)		-3	30 to +8	5	۰C	
Device s	ize (L typ. x W	typ. x H m	ax.)	2.5x2	2.0x0.6	ōmax	mm	

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

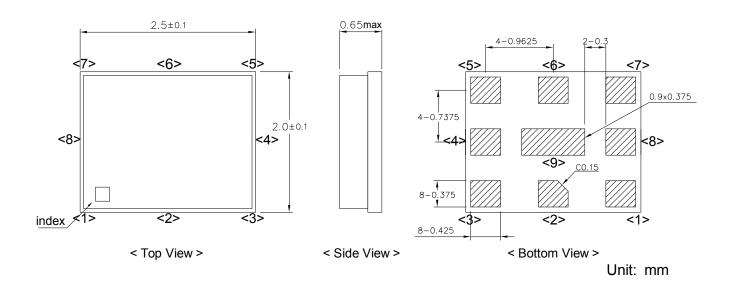






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Dimensions



Pin Configuration

Pin No.	Pin name	Description
1	Rx	Receiver Pin (balanced)
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	Rx	Receiver Pin (balanced)
9	GND	Ground Pin

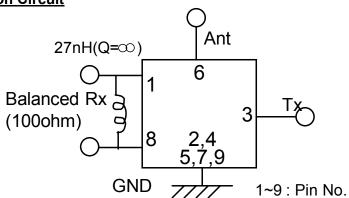
Figure 1. Dimensions and Pin assignment





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Evaluation Circuit



Recommended foot print pattern

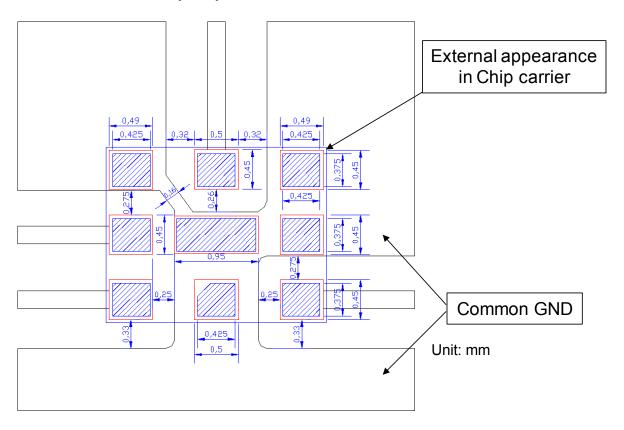


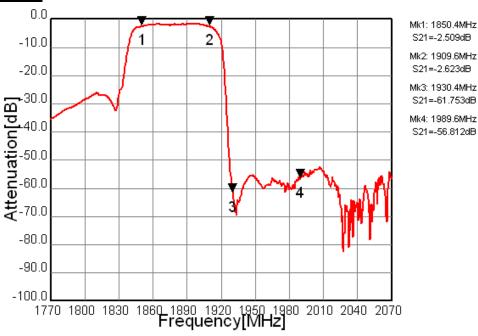
Figure 2. Recommended foot print pattern





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Tx to Ant



Ant to Rx

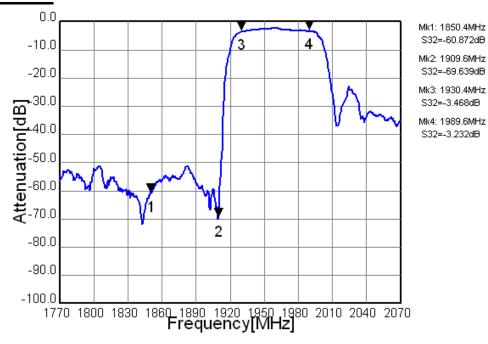


Figure 3-1. Electrical Characteristics

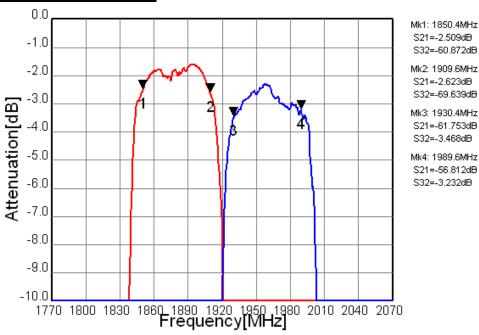
These data **include** loss that comes from the test board. (Approximately 0.15dB)





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Tx to Ant, Ant to Rx



Tx to Rx Isolation

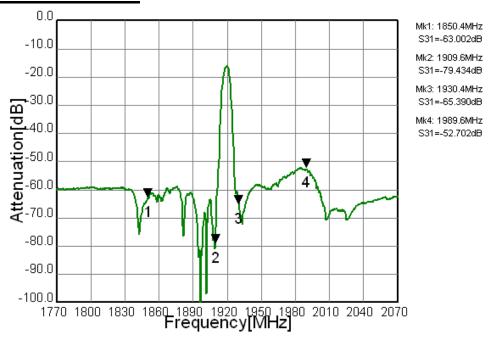


Figure 3-2. Electrical Characteristics

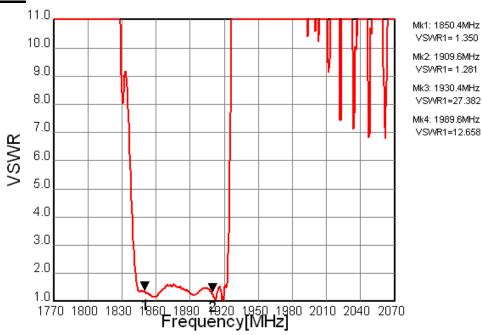
These data **include** loss that comes from the test board. (Approximately 0.15dB)





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Tx Port



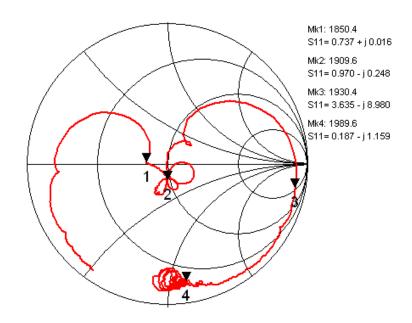


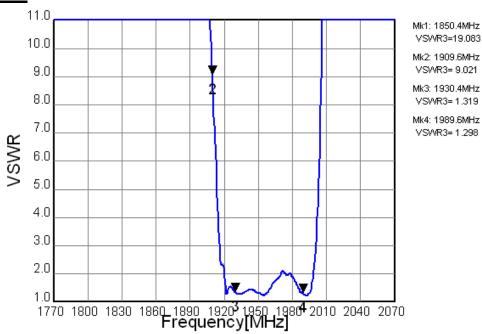
Figure 3-3. Electrical Characteristics





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Rx Port



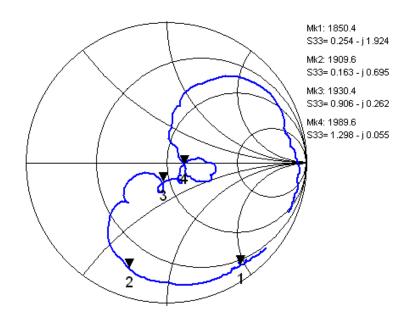


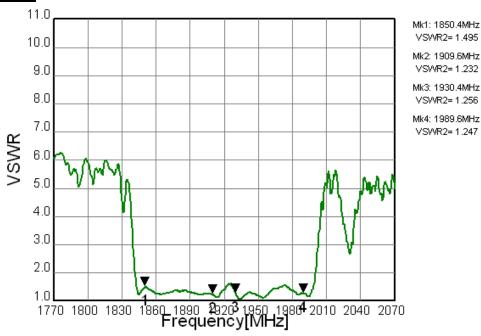
Figure 3-4. Electrical Characteristics





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Ant Port



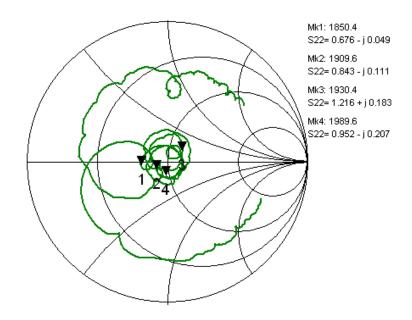


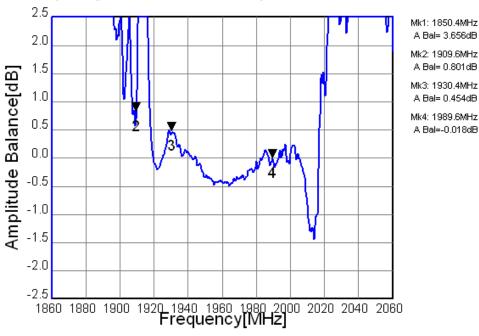
Figure 3-5. Electrical Characteristics





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Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

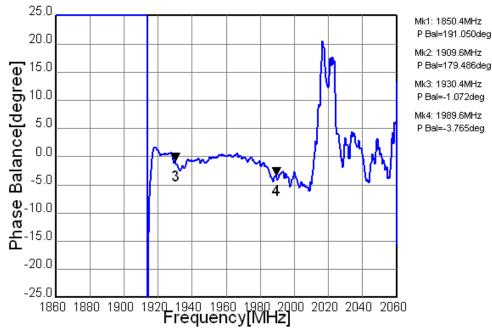


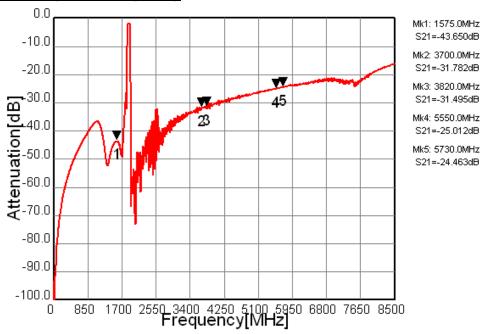
Figure 3-6. Electrical Characteristics





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Part Number	FAR-D6NF-1G9600-P1B7	Version 2 1dd	

Tx to Ant (Wide span)



Ant to Rx (Wide span)

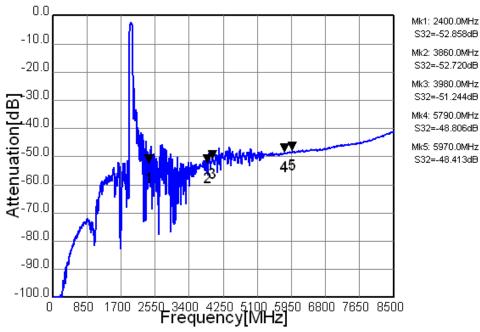


Figure 3-7. Electrical Characteristics