RoHS) MSL1

free Part

Customer Name	Standard	TAIYO YUDEN Mobile T	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

Table 1. Electrical Specification

	ltem		Condition		Specificatior	ı	Unit	Remarks
			(MHz)	Min	Тур	Max		
Tx	Insertion loss	3	1920~1980	-	1.4	1.65	dB (*1)	
to	Ripple		1920~1980	-	0.5	1.0	dB	
ANT	VSWR	ANT	1920~1980	-	1.7	2.0	-	
		Tx	1920~1900	-	1.5	2.0	-	
	Absolute atte	enuation	1574~1577	30	32	-	dB	
			2110~2170	42	45	-	dB	
			3840~3960	15	19	-	dB	
	Input Power		1920~1980	+29dB	m, Ta=+50∘C	, 50k h	dBm	
ANT	Insertion loss	6	2110~2170	-	1.7	2.0	dB (*1)	
to	Ripple		2110~2170	-	0.5	1.0	dB	
Rx	Phase balan	ce	2110~2170	-6	-3/+14	+18	deg	
	Amplitude ba	lance	2110~2170	-1.2	-0.8 /+0.8	+1.2	dB	
	VSWR	ANT	2110~2170	-	1.4	2.0	-	
		Rx	2110-2170	-	1.6	2.0	-	
	Absolute atte	nuation	1920~1980	48	50	-	dB	
Tx to	Isolation		1920~1980	54	58	-	dB	
Rx			2110~2170	46	48	-	dB	
Termina	ting Impedanc	e	Tx port		50		Ohm	Single-ended
			Rx port		100 // 15n⊢		Ohm	Balanced
			Ant port		50 // 3.0nH	1	Ohm	Single-ended
Operatir	ng Temperatur	e			-20 to +85		٥C	
Device s	size (L typ. x W	/ typ. x H n	ıax.)	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.)

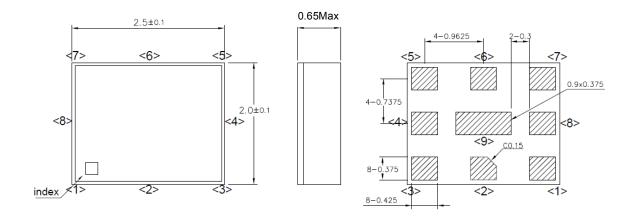
Pb	
Pb-free	

RoHS) MSL1

* Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile 1	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

Dimensions



Unit: mm

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

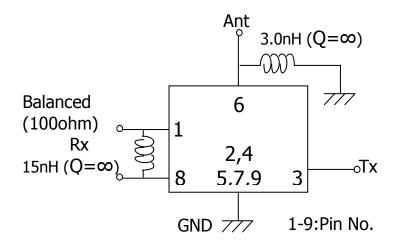
Figure 1. Dimensions and Pin assignment

RoHS) MSL1

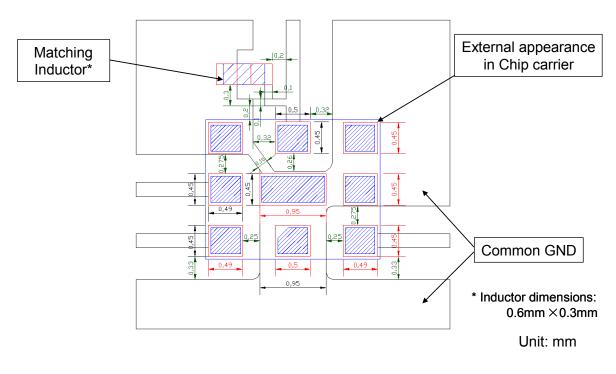
b Free Part

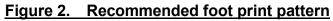
Customer Name	Standard	TAIYO YUDEN Mobile 1	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

Evaluation Circuit



Recommended foot print pattern



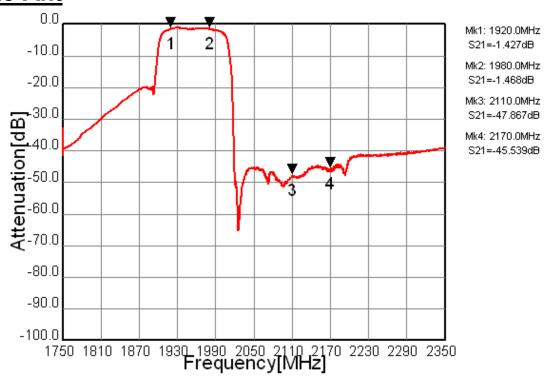


RoHS) MSL1

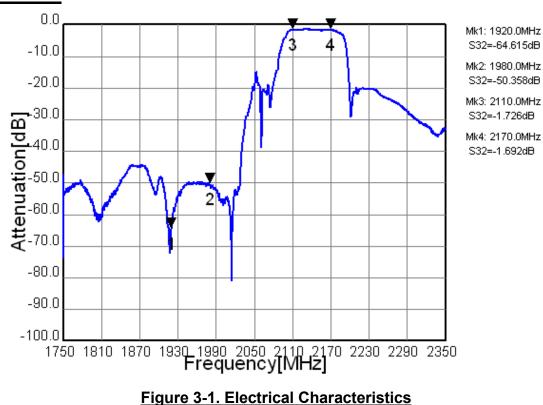
Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile T	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

Tx to Ant



Ant to Rx



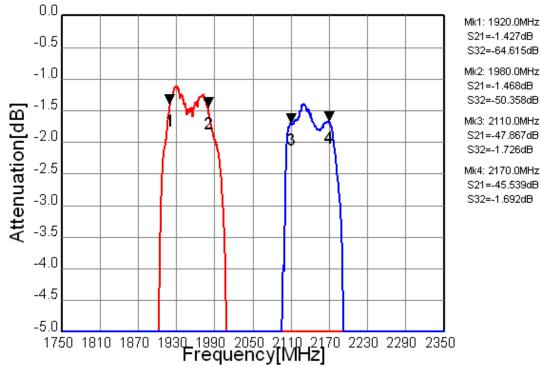
These data include loss that comes from the test board. (Approximately 0.15dB.)

RoHS) MSL1

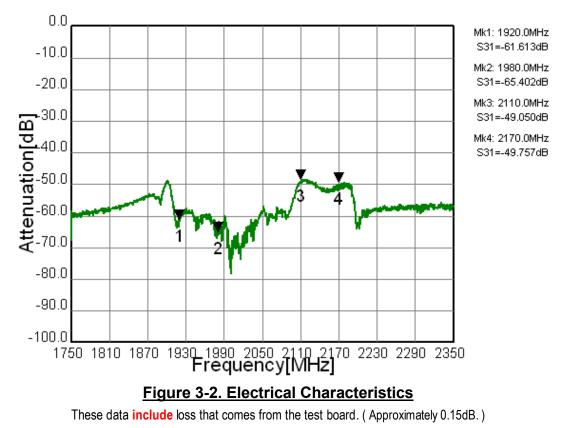
<u>b-free</u> Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile T	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

Tx to Ant, Ant to Rx



Tx to Rx Isolation

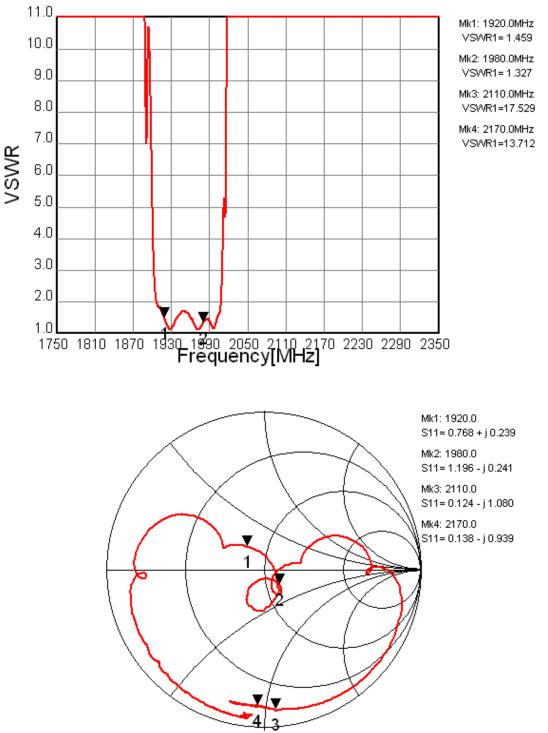


RoHS) MSL1

Pb-free Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile T	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

<u>Tx Port</u>





RoHS) MSL1

Pb-free Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile T	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

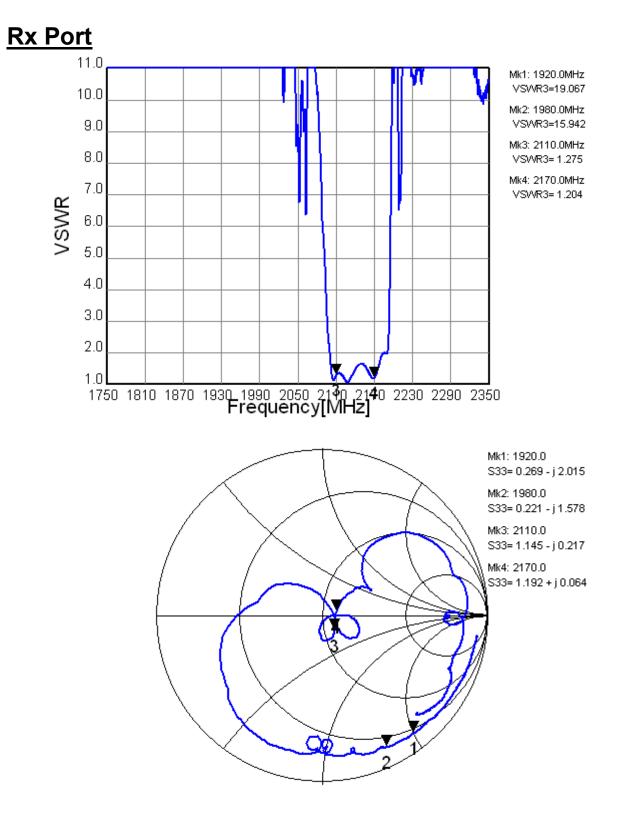


Figure 3-4. Electrical Characteristics

RoHS) MSL1

Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile T	echnology Co., Ltd.
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

Ant Port

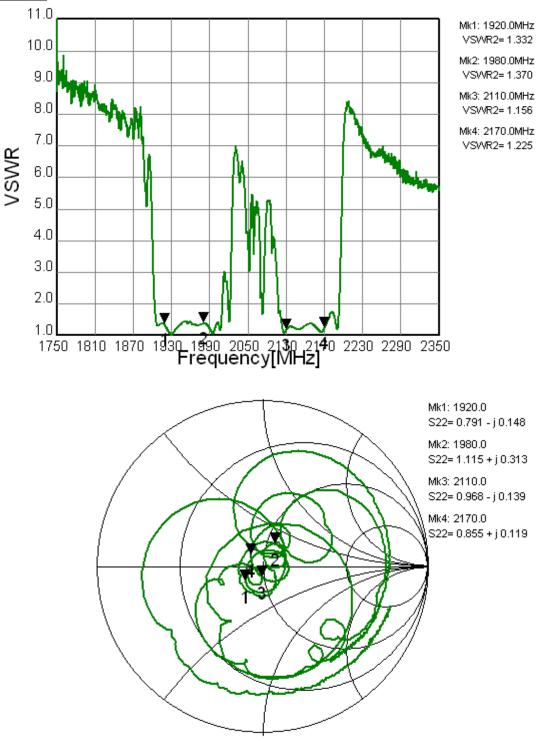
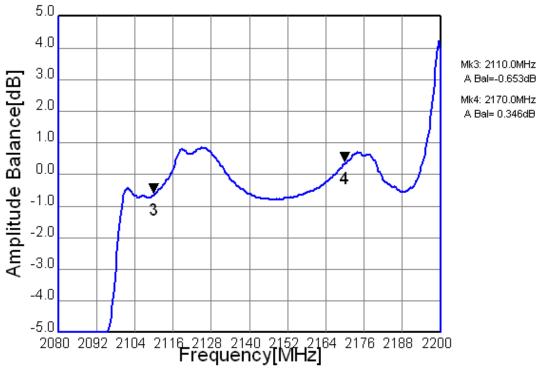


Figure 3-5. Electrical Characteristics

Pb-free Pb Free Part	MSL1		
Customer Name	Standard	TAIYO YUDEN Mob	<u>pile Technology Co., Ltd</u>
Customer Name System	Standard Band I Duplexer	TAIYO YUDEN Mob	March 31, 2010

Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

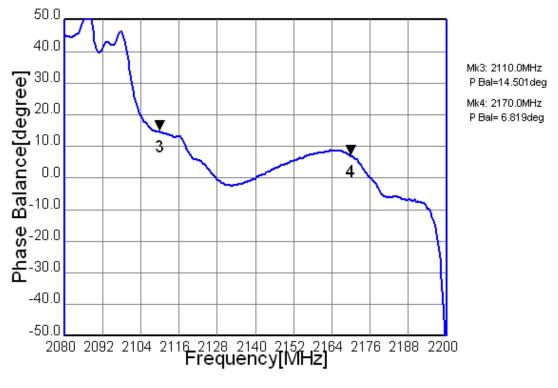


Figure 3-6. Electrical Characteristics

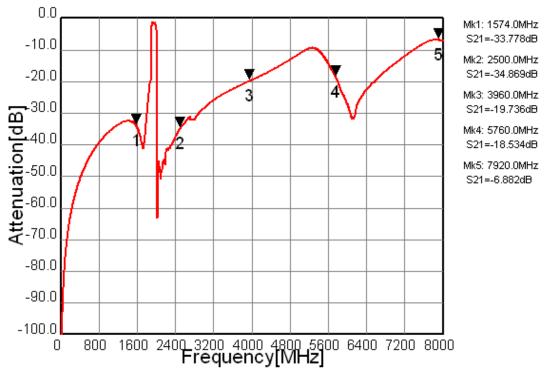
-free

RoHS) MSL1

Pb-free Pb Free Part

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band I Duplexer	Date	March 31, 2010
Part Number	FAR-D6JH-2G1400-B1BT	Version 1.0gf	

Tx to Ant (Wide span)



Ant to Rx (Wide span)

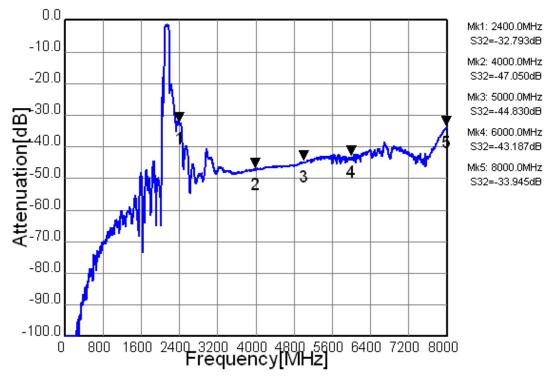


Figure 3-7. Electrical Characteristics