



Customer Name	Standard	TAIYO YUDEN Mo	bile Technology Co.,Ltd.
System	Band VIII Duplexer	Date	March. 14, 2013
Part Number	D5PE942M5P3GT	Version 4.2cc	Final

Table 1. Electrical Specification

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Item		Condition		Specification		Unit	Remarks	
	 		(MHz)	Min	Тур	Max		
Tx	Insertion loss		882.4~912.6	-	1.8	2.6 (*2)	dB (*1)	
to	Ripple	T	882.4~912.6	-	0.8	1.9	dB	
ANT	VSWR	Тх	880.4~914.6	-	1.9	2.2	-	
		Ant	000.4 314.0	-	1.7	2.0	-	
	Input Power		880.4~914.6	290	dBm, Ta=+5	00°C		
			000.4**914.0	10000h,	WCDMA m	odulation	-	
	Absolute atter	nuation	10~821	33	38	-	dB	
			927.4~957.6	44(*2)	53	-	dB	
			1565.4~1605.9	45	50	-	dB	
			1760~1880	40	49	-	dB	
			1880~2500	33	39	-	dB	
			2620~2745	30	36	-	dB	
			3520~3660	20	31	-	dB	
			4400~4575	15	24	-	dB	
			5150~5850	10	25	-	dB	
ANT	Insertion loss		927.4~957.6	-	2.2	2.6 (*2)	dB	
to			925~960	-	2.3	3.3	(*1)	
Rx	Ripple		925~960	-	0.8	2.2	dB	
	Amplitude bala	ance	925~960	-0.7	-0.3/+0.2	+0.7	dB	
	Phase balance	е	925~960	-7	-2/+3	+7	deg	
	VSWR	Ant		_	1.8	2.1	-	
		Rx	925~960	-	2.0	2.3	-	
	Absolute atter	nuation	10~880	35	58	-	dB	
			882.4~912.6	48(*2)	58	-	dB	
			1045~4810	35	48	-	dB	
Tx to	Isolation		882.4~912.6	56(*2)	60	-	dB	
Rx			927.4~957.6	50(*2)	55	-	dB	
Terminat	ing Impedance		Tx port		50		Ohm	Single-ended
	• .		Rx port		100		Ohm	Differential
		Ant port		50 // 7.5nH		Ohm	Single-ended	
Maximun	n DC Voltage		Tx,Rx port		+/- 5		٧	
		ANT port	0		V			
Operating Temperature			-20 to +85		۰C			
	ize (LxWxH)			2.0	0 x 1.6 x 0.5m	nax.	mm	

^(*1) Specification of insertion loss excludes loss that comes from the test board. (Approximately 0.05dB)

^(*2) Integrated over +/-1.92MHz around the WCDMA channel center frequency

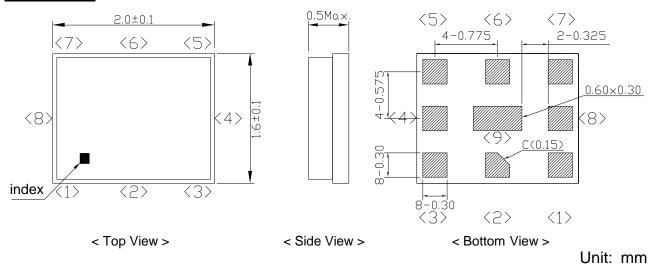






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Dimensions



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

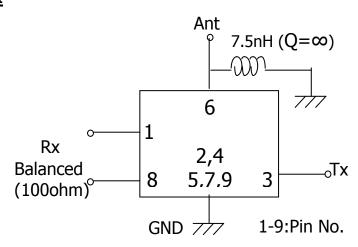




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Evaluation Circuit



Recommended foot print pattern

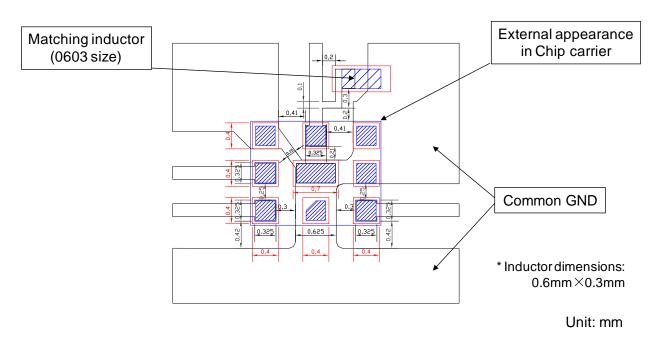


Figure 2. Recommended foot print pattern

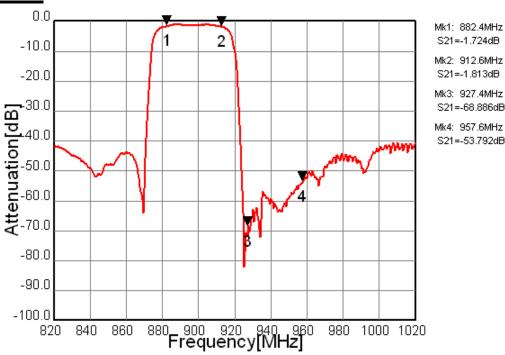






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Tx to Ant



Ant to Rx

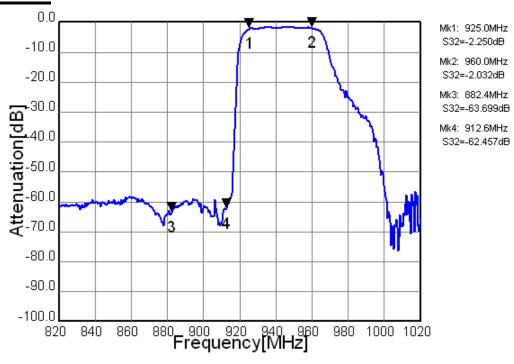


Figure 3-1. Electrical Characteristics

These data **include** loss that comes from the test board. (Approximately 0.05dB)

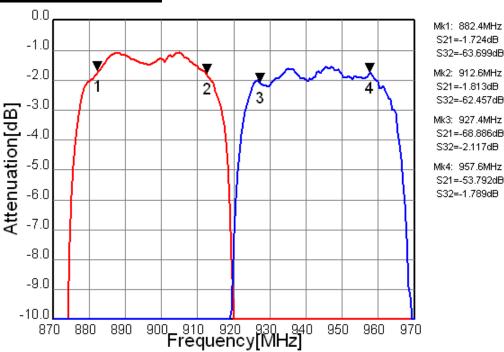






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Tx to Ant, Ant to Rx



Tx to Rx Isolation

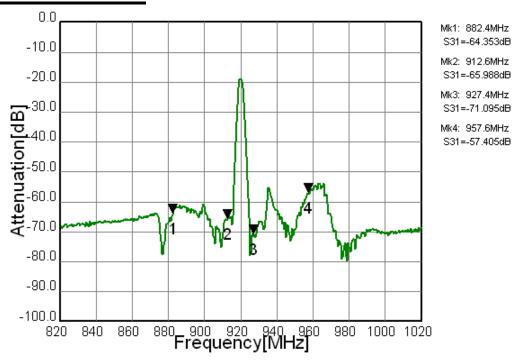


Figure 3-2. Electrical Characteristics

These data include loss that comes from the test board. (Approximately 0.05dB)

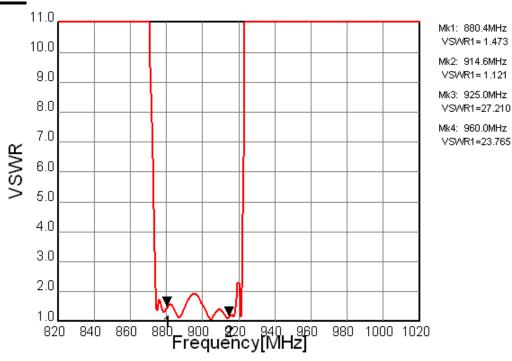






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Tx Port



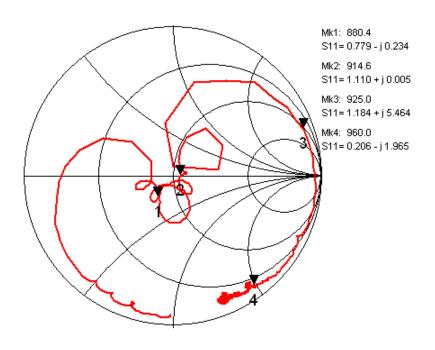


Figure 3-3. Electrical Characteristics

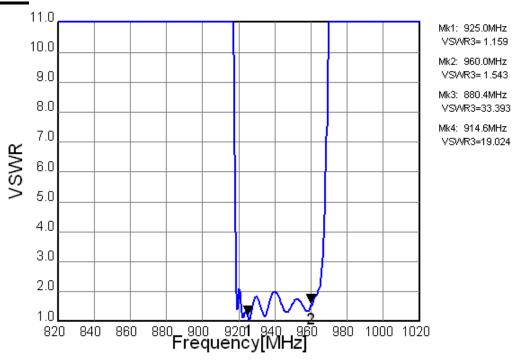






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Rx Port



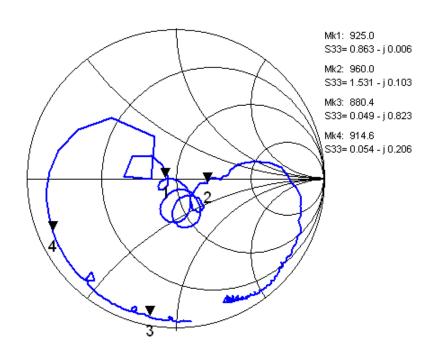


Figure 3-4. Electrical Characteristics

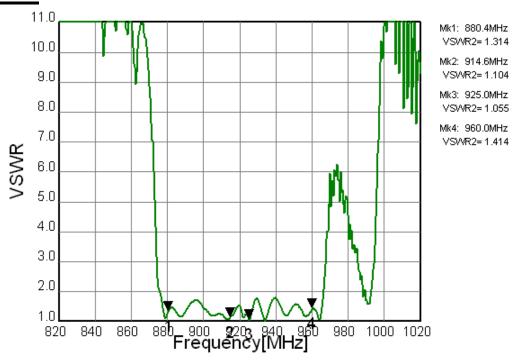






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Ant Port



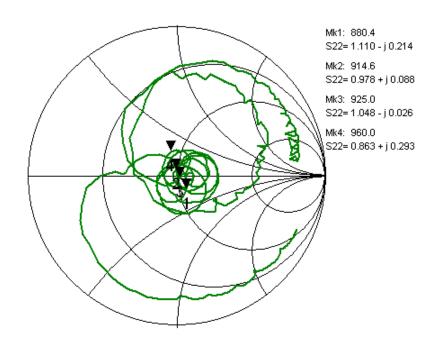


Figure 3-5. Electrical Characteristics

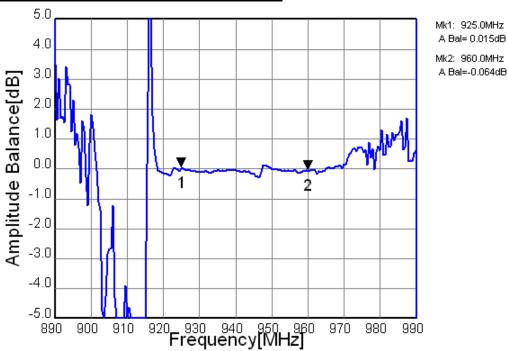






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Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

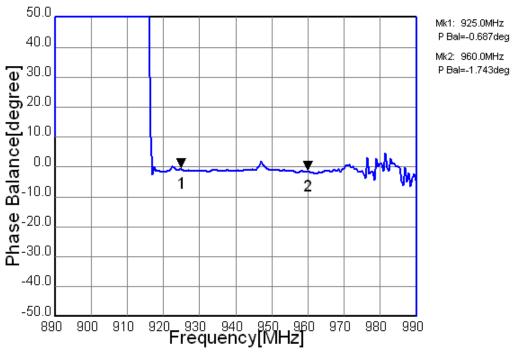


Figure 3-6. Electrical Characteristics

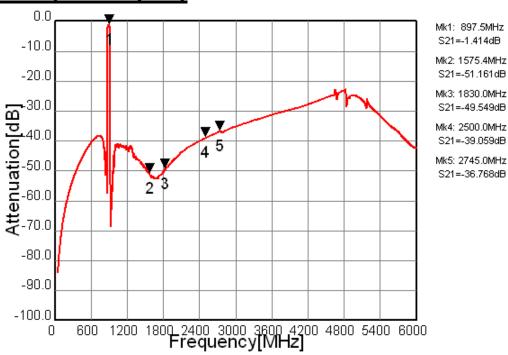






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Tx to Ant (Wide span)



Ant to Rx (Wide span)

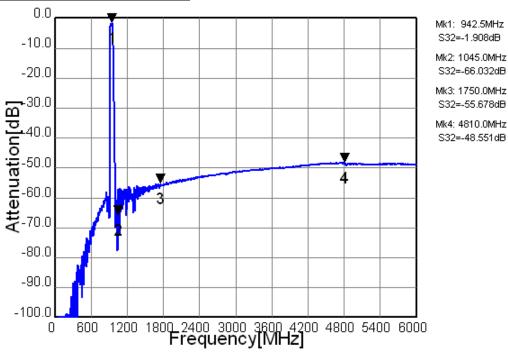


Figure 3-7. Electrical Characteristics







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Ordering Code

Ordering Code	Packing	Reel size	Status
D5PE942M5P3GT-Z	Tape & Reel	3,000 pcs.	MP
D5PE942M5P3GT-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5PE942M5P3GT-Y	Tape & Reel	15,000 pcs.	MP
D5PE942M5P3GT-YA	Tape & Reel	less than 15,000 pcs.	MP
D5PE942M5P3GT-Q	Bulk	few pcs.	MP

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

Notice

All of the contents specified herein are subject to change without notice due to technical improvements, etc.

Please contact Taiyo Yuden Co., Ltd. for further details of product specifications.

Please conduct validation and verification of products in actual condition of mounting and operating environment before commercial shipment of the equipment.



^{*}MP: Mass Production