



Customer Name	Standard	TAIYO YUDEN Mobil	e Technology Co.,Ltd.
System	BC0 + BC10 Duplexer	Date	March 31, 2011
Part Number	D5NF878M0P1ET	Version 3.1bc	

Table 1. Electrical Specification

Item		Condition		Specification	1	11-4	Damada	
			(MHz)	Min	Тур	Max	Unit	Remarks
Tx	Insertion	loss	817~849	-	1.9	2.5	dB (*1)	
to	Ripple		817~849	-	0.6	1.4	dB	
ANT		Ant	817~849	-	1.8	2.1		
	VSWR	Tx	817~849	-	2.0	2.3	-	
	Input Pow	ver	817~849	290	dBm, Ta=+5 50kh, CW	0°C	-	
	Absolute		772~804	30	35	-	dB	
	attenuatio	on	862~894	44	47	-	dB	
			1573~1606	40	42	-	dB	
			1624~1708	40	43	-	dB	
			1930~1990	44	50	-	dB	
			2110~2170	44	50	-	dB	
			2400~2557	36	43	-	dB	
ANT	Insertion loss			-	2.5	3.3		-30 to -20 °C
to			862~894	-	2.5	3.2	dB (*1)	-20 to +20 °C
Rx				-	2.5	3.0		+20 to +85 °C
	Ripple		862~894	-	0.7	1.8	dB	
	Phase ba	lance	862~894	-13	-9 / +1	+13	Deg	
	Amplitude	e balance	862~894	-1.4	-0.5 / +0.8	+1.4	dB	
	VSWR	Ant	862~894	-	1.6	2.0		
	VOVIK	Rx	862~894	-	2.0	2.2	-	
	Absolute		817~849	50	55	-	dB	
	attenuatio	on	849-854	10	38	-	dB	
			2400~2500	45	51	-	dB	
Tx to Rx	Isolation		817~849	55	58	-	dB	
			862~894	48	50	-	dB	
Terminating	g Impedanc	е	Tx port		50		Ohm	Single-ended
		Rx port		100		Ohm	Differential	
		Ant port	<u> </u>	50		Ohm	Single-ended	
Operating 7	Temperature	е			-30 to +85		۰C	
Device size (L typ. x W typ. x H max.)		x.)	2	.5 x 2.0 x 0.6	35	mm		

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

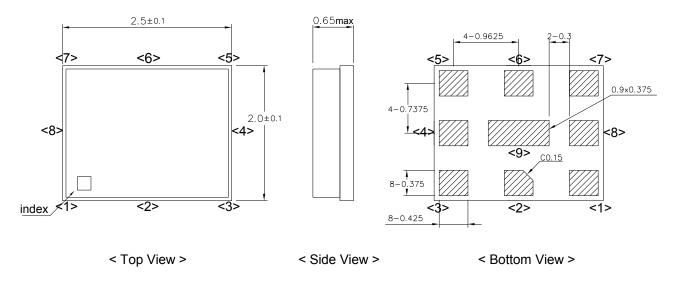






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Dimensions



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

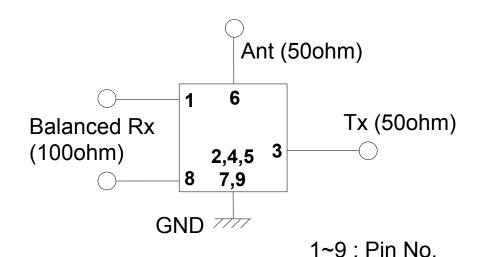
Figure 1. Dimensions and Pin assignment





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Evaluation Circuit



Recommended foot print pattern

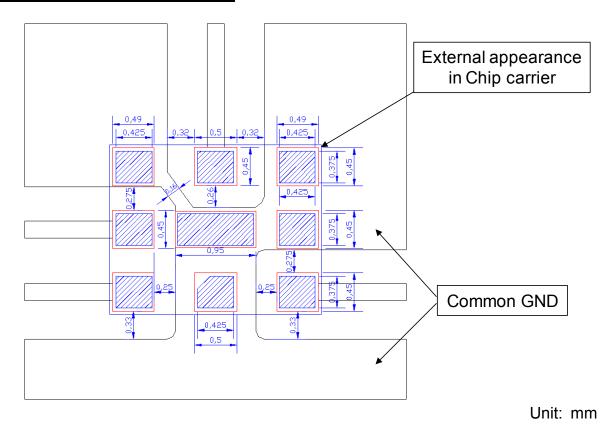


Figure 2. Recommended foot print pattern

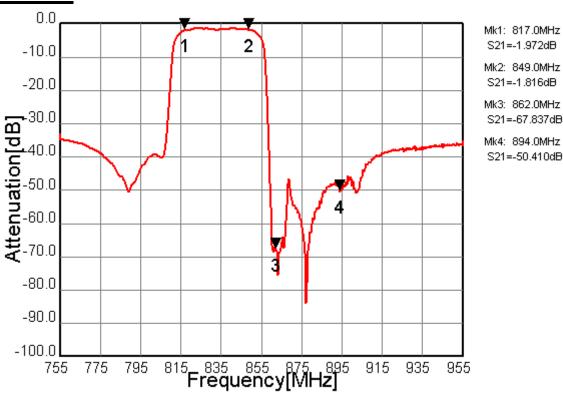






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Tx to Ant



Ant to Rx

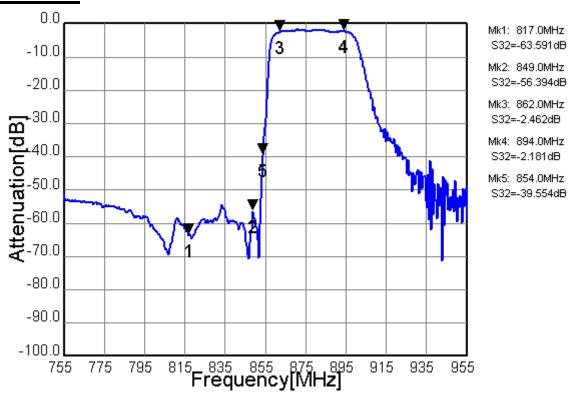


Figure 3-1. Electrical Characteristics

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

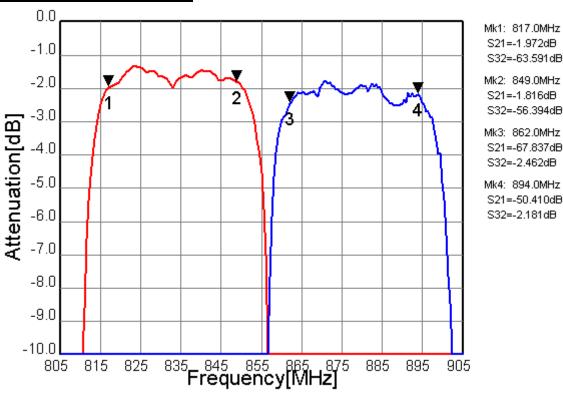






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Tx to Ant, Ant to Rx



Tx to Rx Isolation

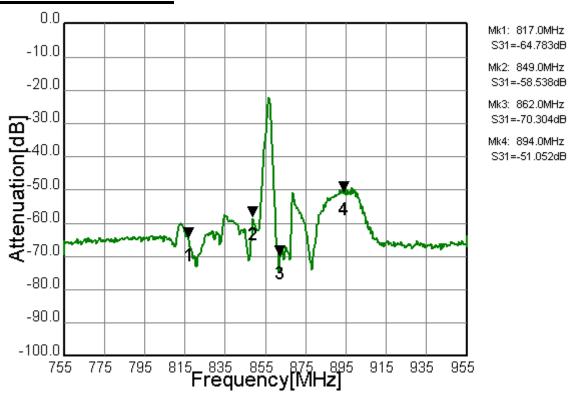


Figure 3-2. Electrical Characteristics

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







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Tx Port

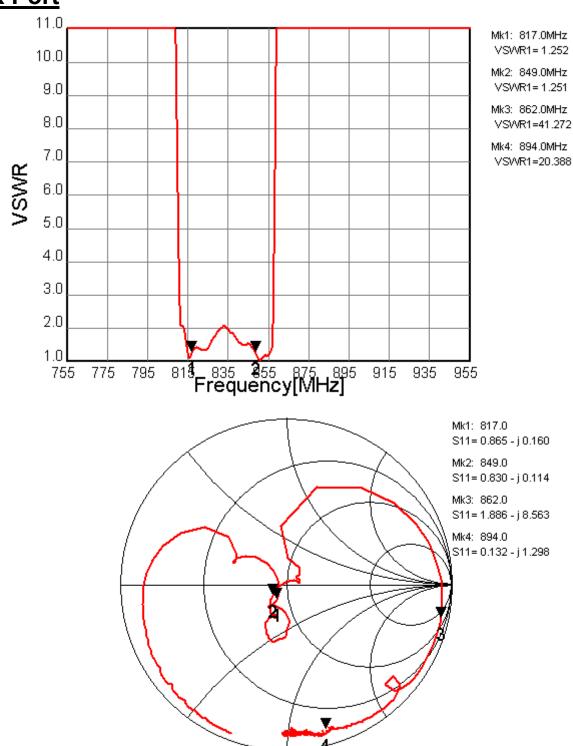


Figure 3-3. Electrical Characteristics







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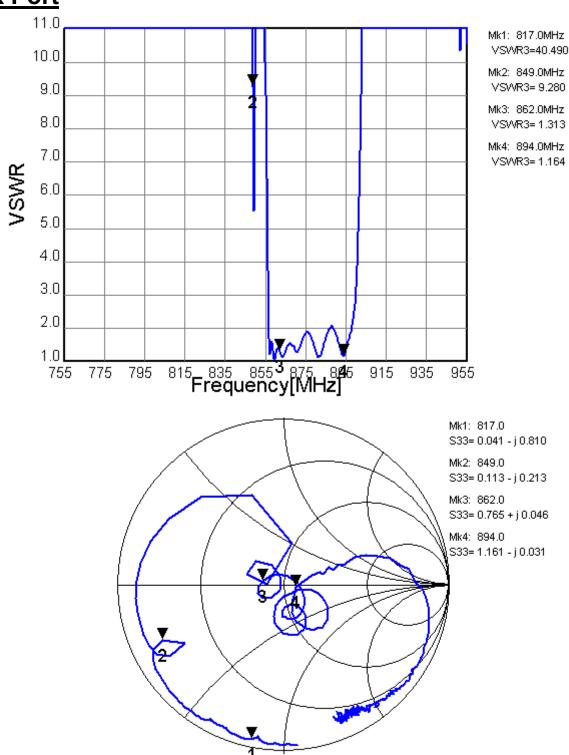


Figure 3-4. Electrical Characteristics







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Ant Port

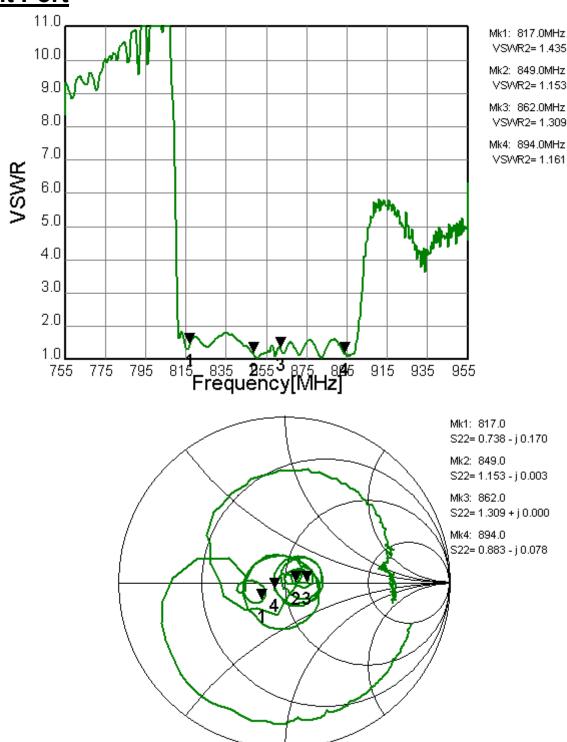


Figure 3-5. Electrical Characteristics



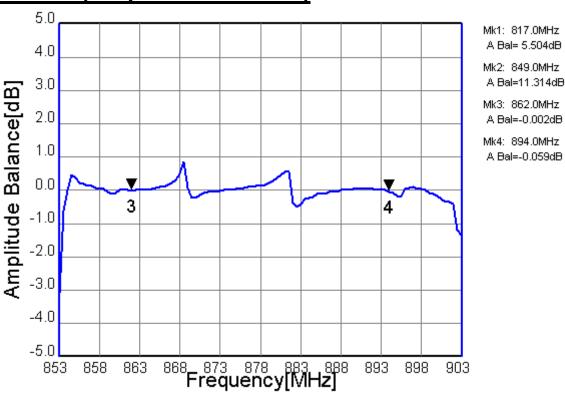




MSL₁

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Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

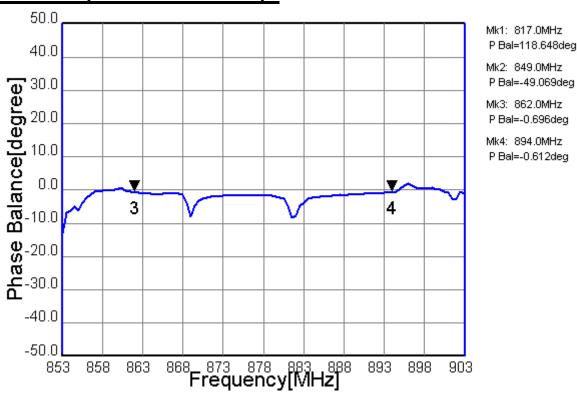


Figure 3-6. Electrical Characteristics



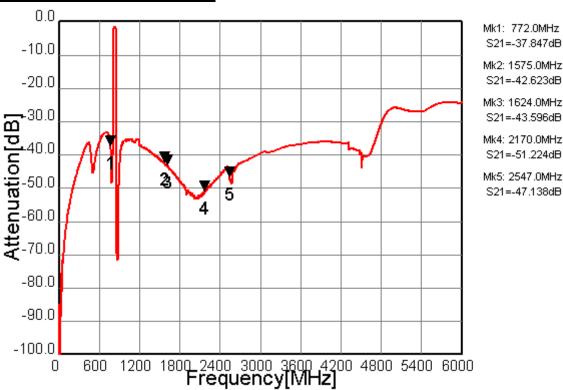




MSL₁

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Tx to Ant (Wide span)



Ant to Rx (Wide span)

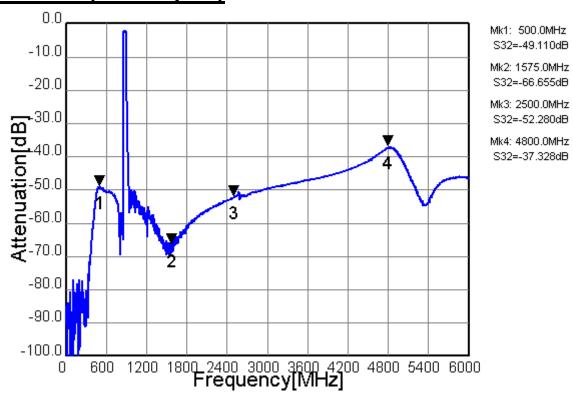


Figure 3-7. Electrical Characteristics







Customer Name	Standard	TALVO VIJDENI MALLI	- Tblow- O- I t-l	
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Ordering Code

Ordering Code	Packing	Reel size	Status
D5NF878M0P1ET-Z	Tape & Reel	3,000 pcs.	MP
D5NF878M0P1ET-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5NF878M0P1ET-U	Tape & Reel	10,000 pcs.	MP
D5NF878M0P1ET-UA	Tape & Reel	less than 10,000 pcs.	MP
D5NF878M0P1ET-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

⁽ For Engineering Sample (ES) order, please add a letter of "S" at the end of the ordering code indicated above.)