



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band V / BC0 Duplexer	Date	Mar.15, 2012
Part Number	D5NL881M5P1HY	Ver. 7.1df	Final

Table 1 Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks
			Min	Typ	Max		
Tx to Ant	Insertion Loss	824~849	-	1.6	2.0	dB ^(*1)	
	Ripple	824 ~ 849	-	0.5	1.2	dB	
	VSWR	824 ~ 849	-	1.6	2.0	-	
			-	1.9	2.2	-	
	Input Power	824 ~ 849	+29dBm, 50oC, 50000hrs				
	Absolute attenuation	DC~804	30	33	-	dB	
		860~869	5	19	-	dB	
		869~894	42	47	-	dB	
		1574~1577	37	40	-	dB	
		1638~1708	20	41	-	dB	
		1844.9~1879.9	30	46	-	dB	
		1884.5~1919.6	30	47	-	dB	
		1930 ~ 1990	44	46	-	dB	
		2110~2170	44	49	-	dB	
		2400~2557	35	44	-	dB	
		3286~3406	20	32	-	dB	
		4110~4255	10	26	-	dB	
		4934~6000	5	18	-	dB	

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



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Table 1 Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks	
			Min	Typ	Max			
Ant to Rx	Insertion Loss		869~894	-	2.6	3.0	dB(*1)	
	Ripple		869~894	-	-	1.2	dB	5MHz in-band
					0.9	1.6	dB	
	Phase balance		869~894	-8	-2/0	+8	deg	
	Amplitude balance		869~894	-0.8	-0.1/+0.1	+0.8	dB	
	VSWR	Ant	869~894	-	1.7	2.3	-	
		Rx		-	1.8	2.1	-	
	Absolute attenuation		0.2~447	45	81	-	dB	
			447~824	30	57	-	dB	
			824~849	45	60	-	dB	
			849~854	10	36	-	dB	
			909~1000	7	20	-	dB	
			1000~4480	35	47	-	dB	
			4480~6000	20	34	-	dB	
Tx to Rx	Isolation		824 ~ 849	55	60	-	dB	Differential rejection
				55	60	-	dB	Common mode rejection
			869 ~ 894	45	51	-	dB	Differential rejection
IIP3 The first tone is applied to the Tx port at f1(=824MHz) The second tone is applied to the antenna port at f2(=779MHz) *The first tone power at +24dBm, The second tone power at +13dBm				-	+78		dBm	at 869MHz
Terminating Impedance		Tx port	50			Ohm	Single-ended	
		Rx port	100			Ohm	Differential	
		Ant port	50 // 7.5nH			Ohm	Single-ended	
Operating Temperature			-30 to +85			°C		
Device size (LxWxH)			3.0 x 2.5 x 0.7			mm		

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

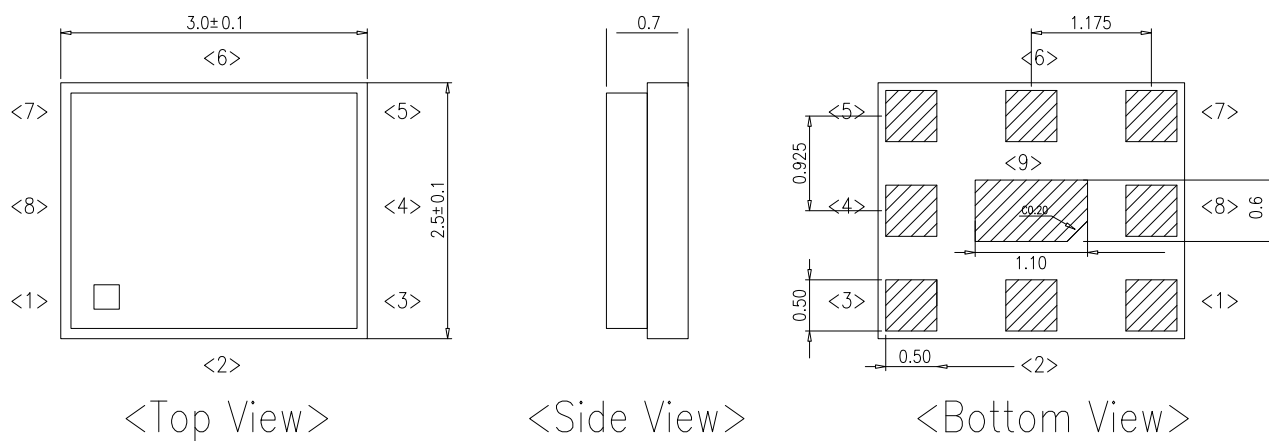


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Dimensions



Unit: mm

Pin Configuration

Pin No.	Pin name	Description
1	Tx	Transmitter Pin
2	GND	Ground Pin
3	Rx	Receiver Pin (Balanced)
4	Rx	Receiver Pin (Balanced)
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



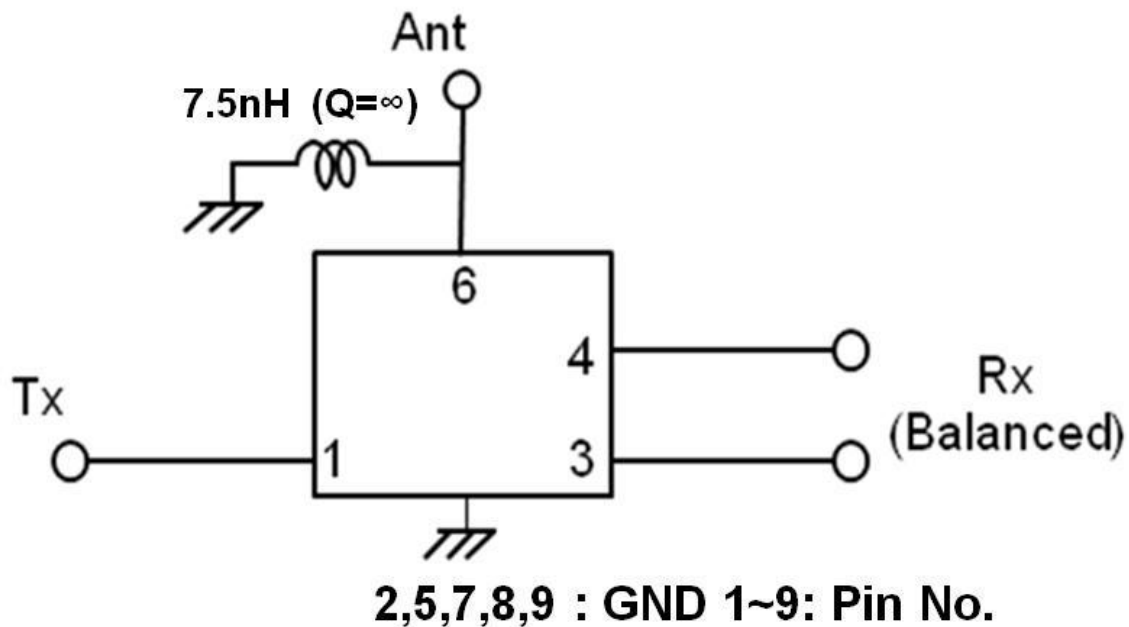
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Evaluation Circuit



Recommended foot print pattern

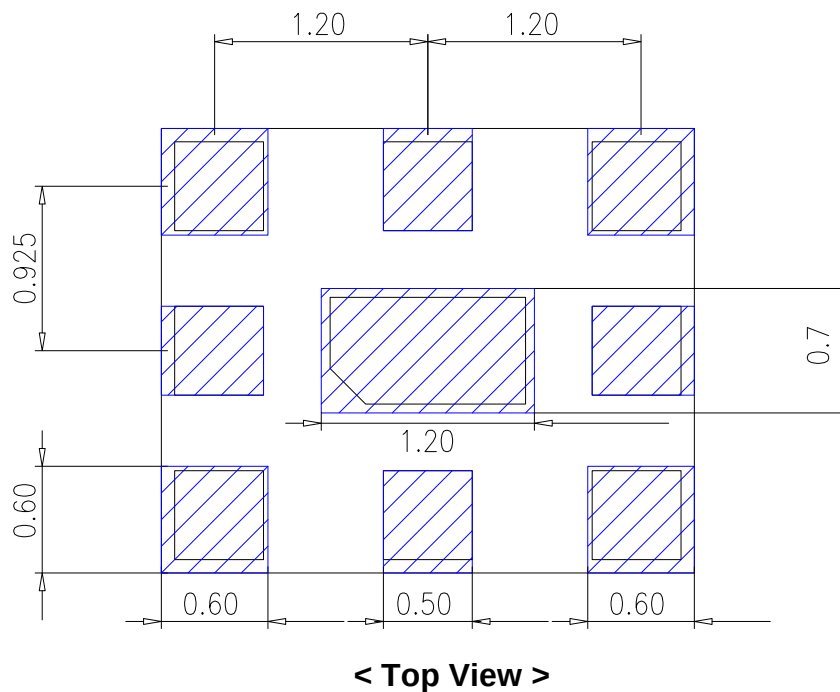


Figure 2. Recommended foot print pattern

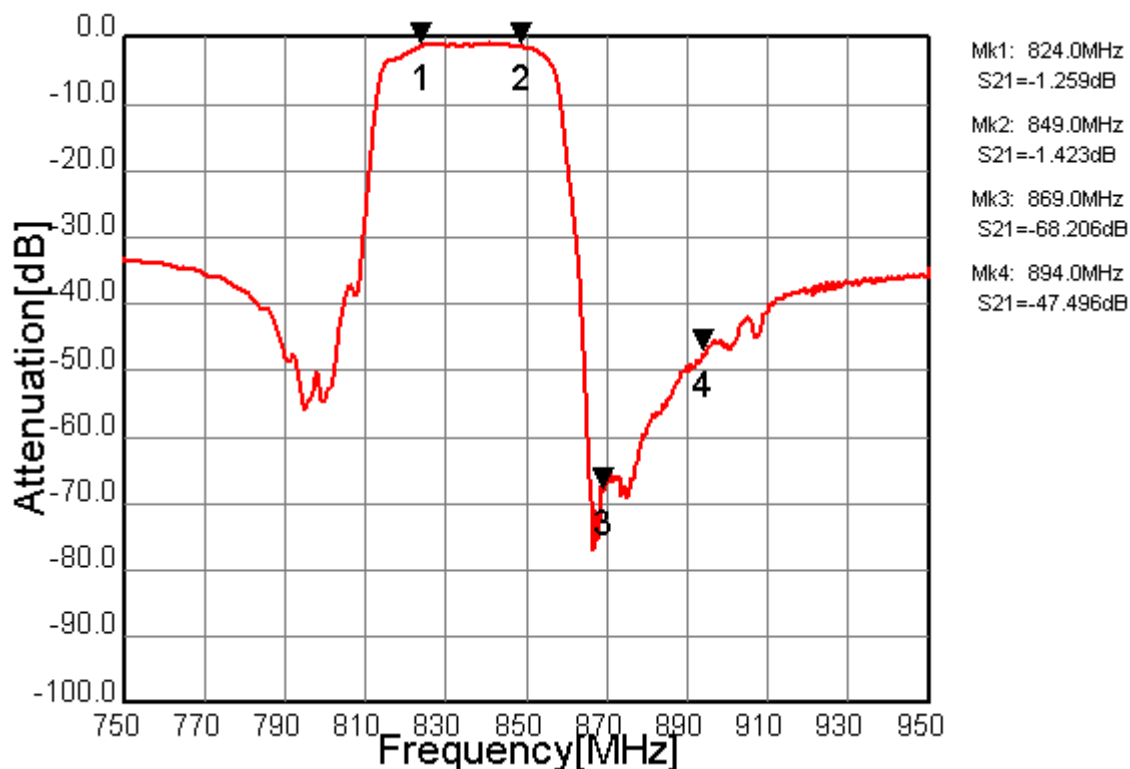


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Tx to Ant



Ant to Rx

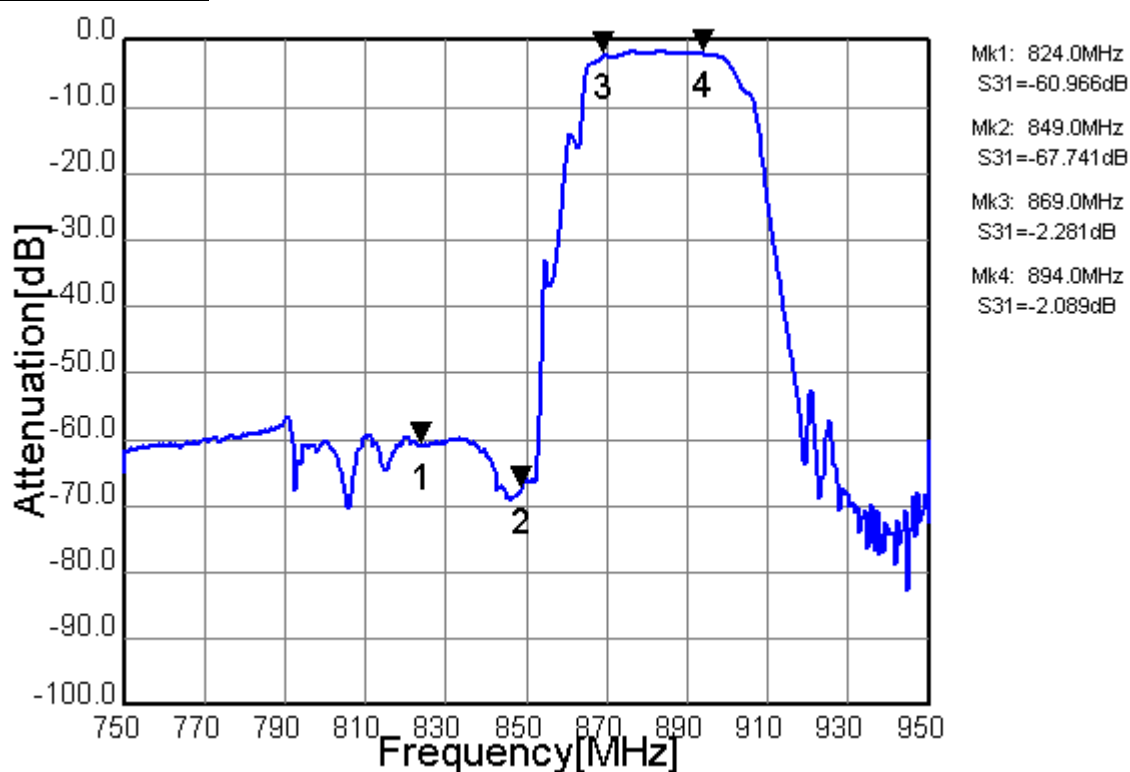


Figure 3-1. Electrical Characteristics

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

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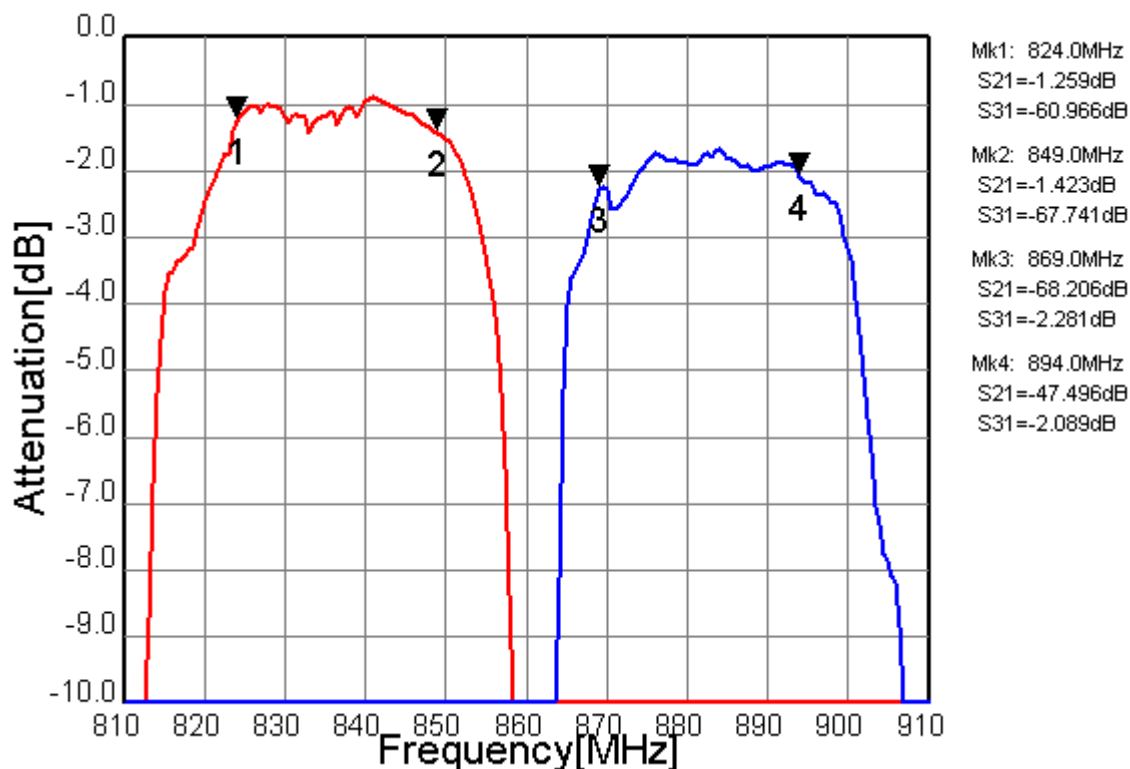


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Tx to Ant, Ant to Rx



Tx to Rx Isolation

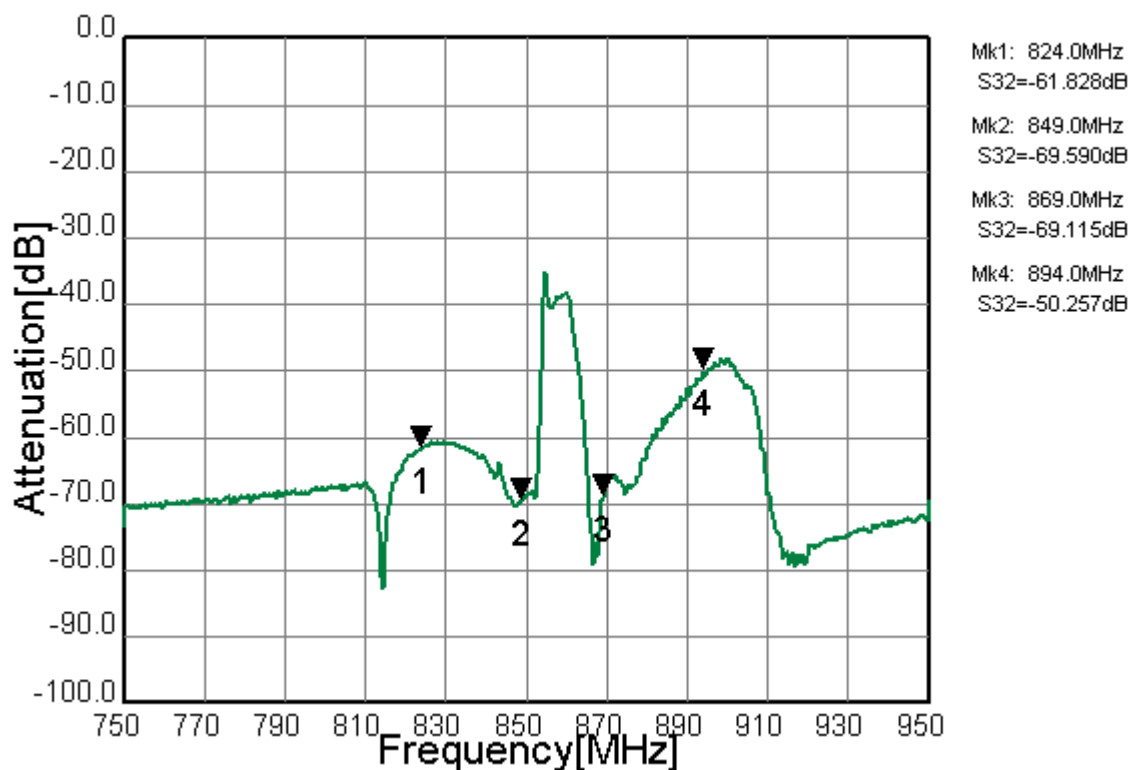


Figure 3-2. Electrical Characteristics

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

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Tx Port

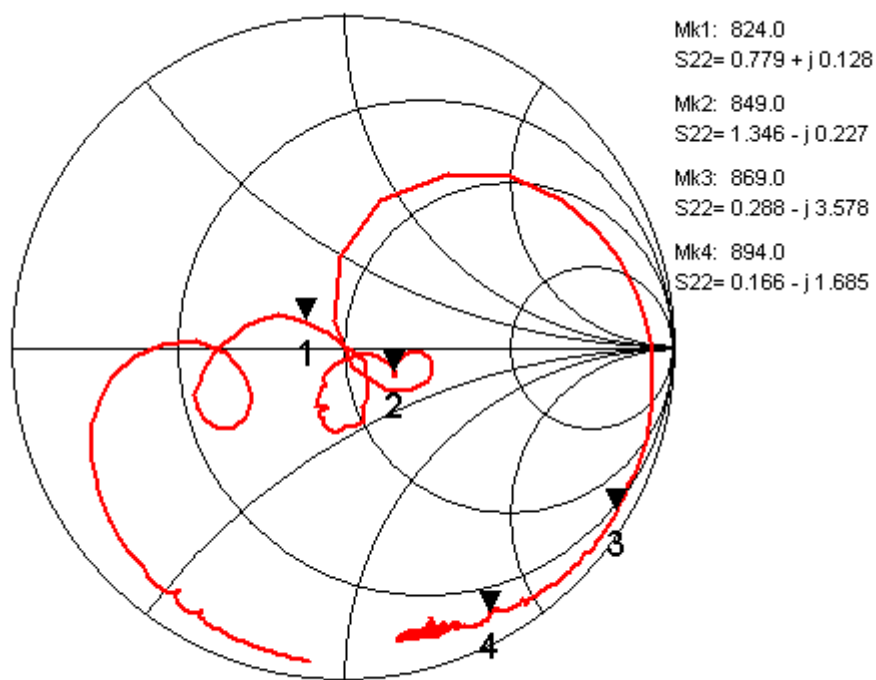
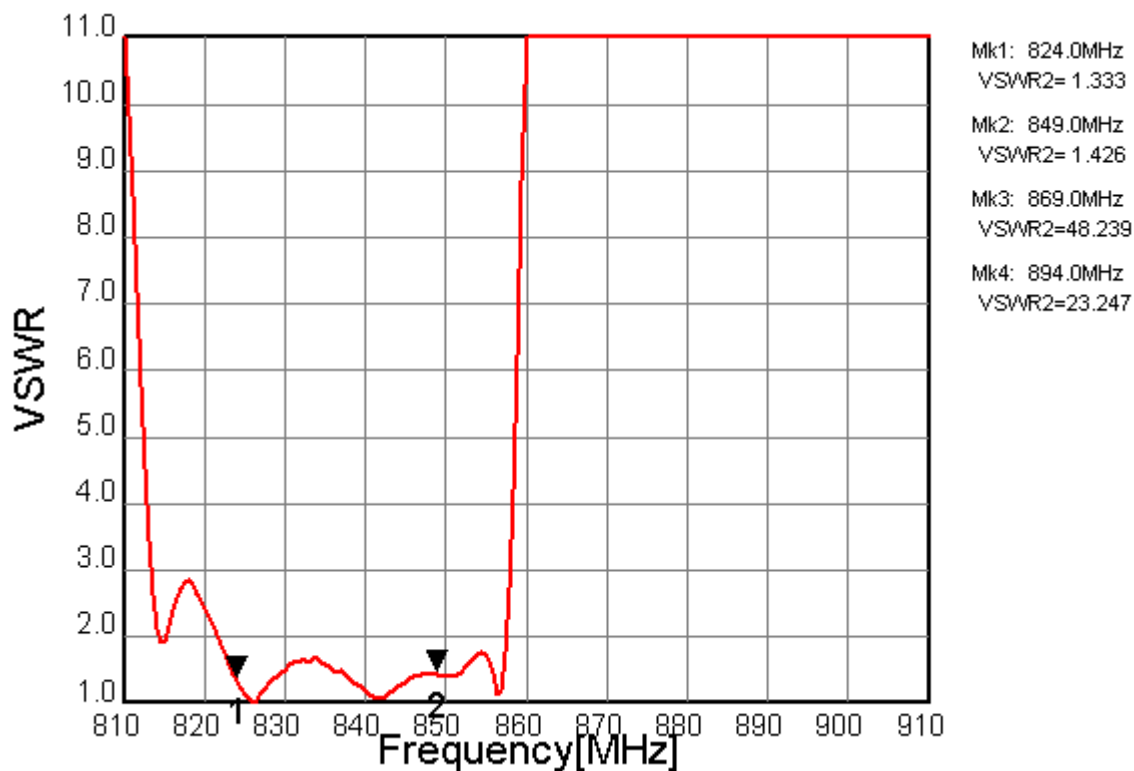


Figure 3-3. Electrical Characteristics

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Rx Port

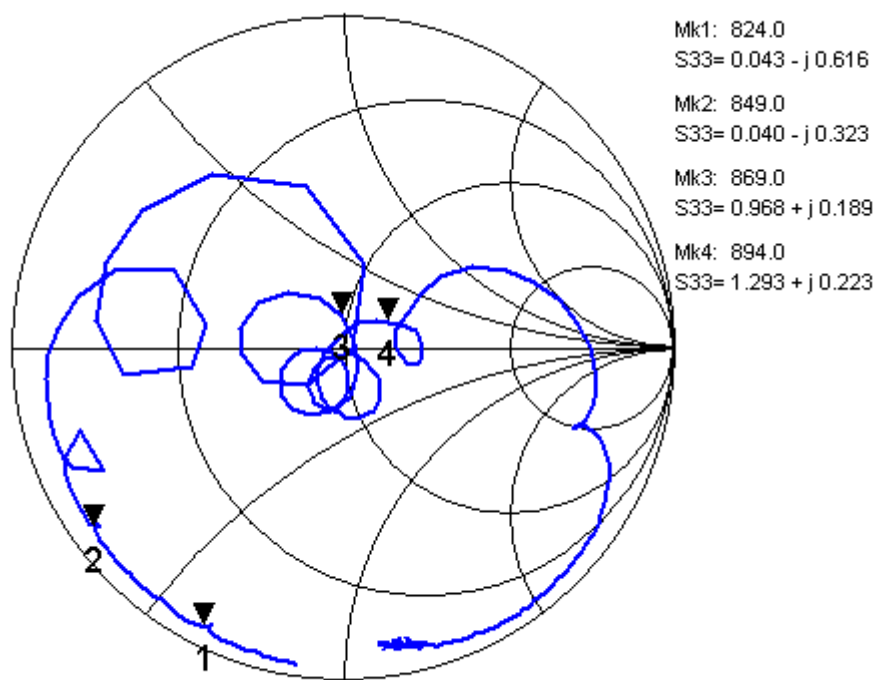
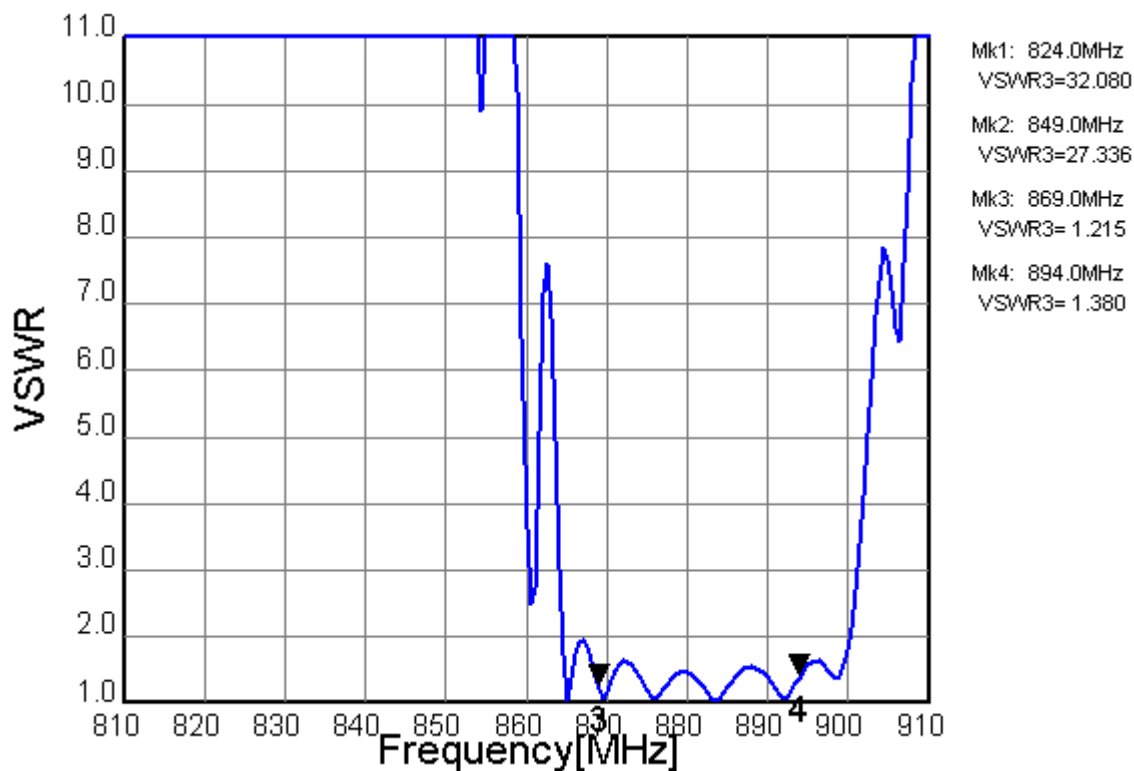


Figure 3-4. Electrical Characteristics

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Ant Port

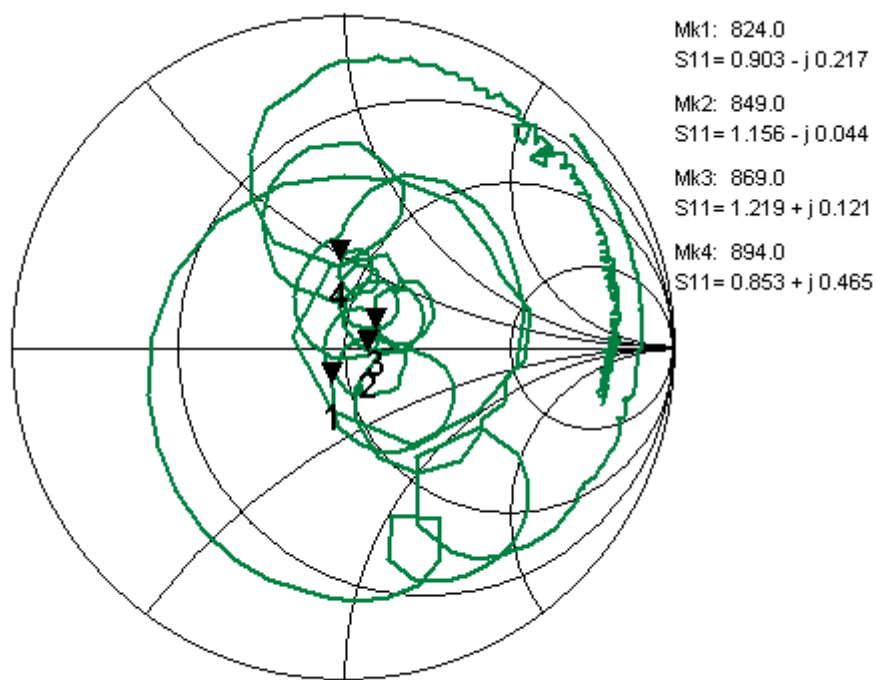
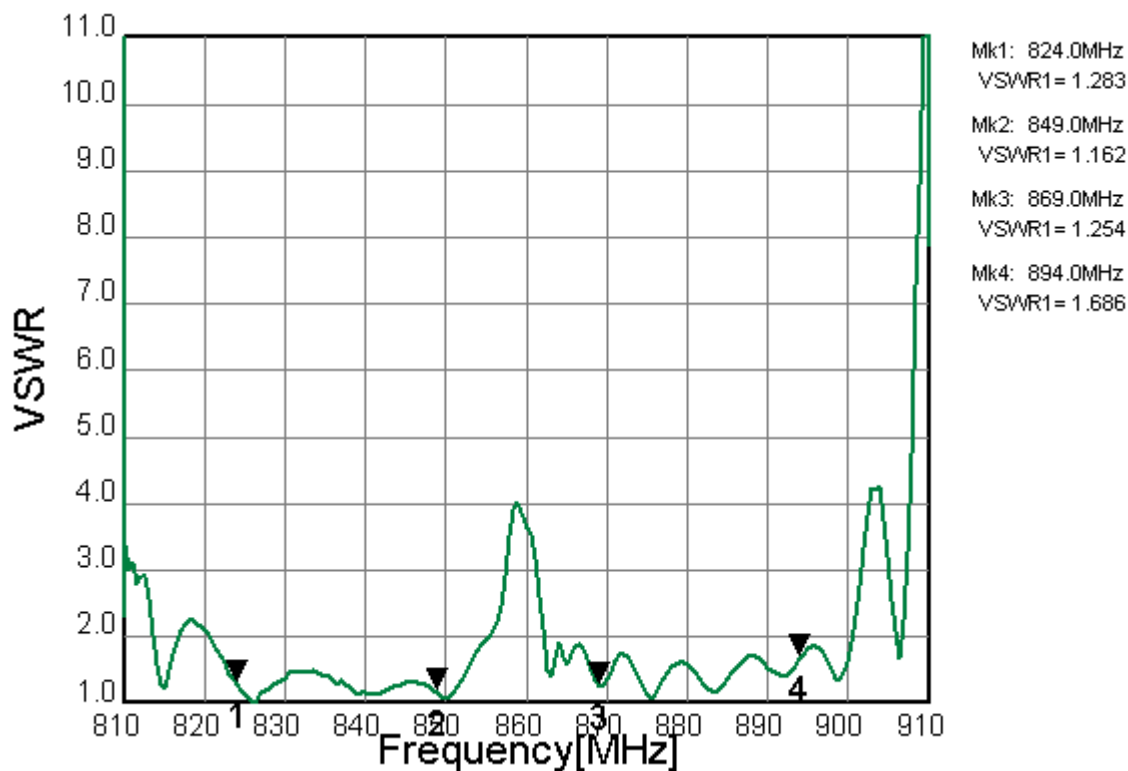


Figure 3-5. Electrical Characteristics

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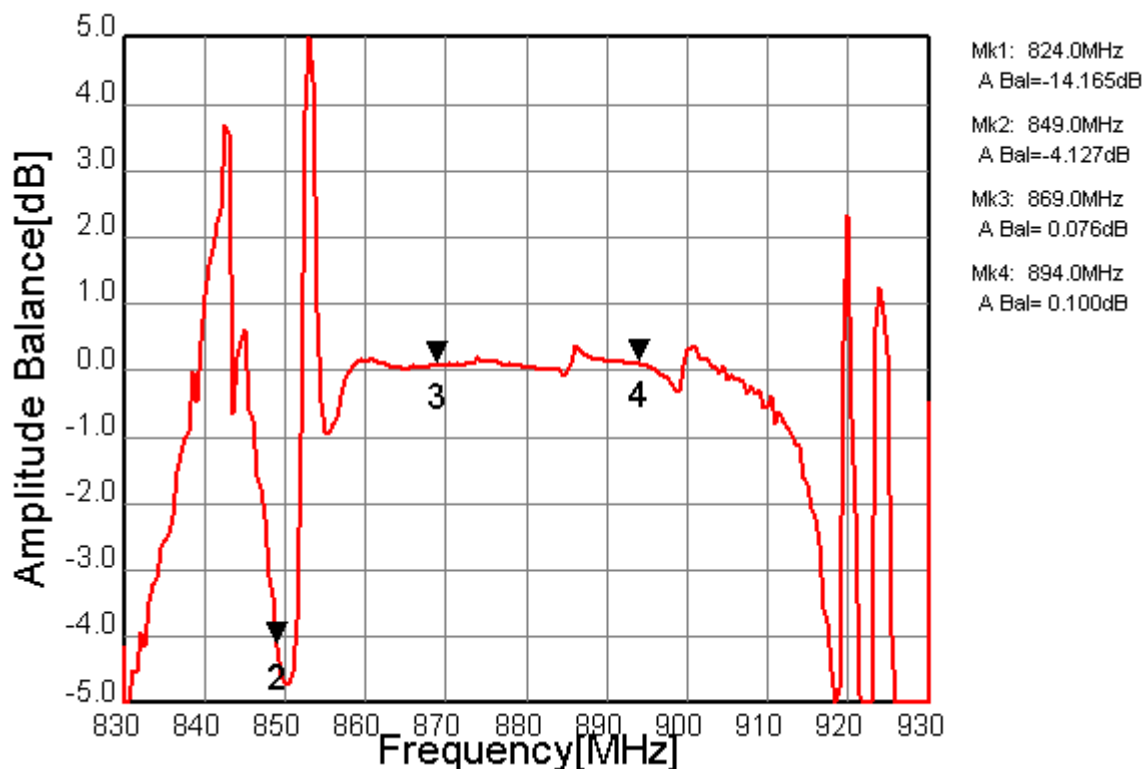
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Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

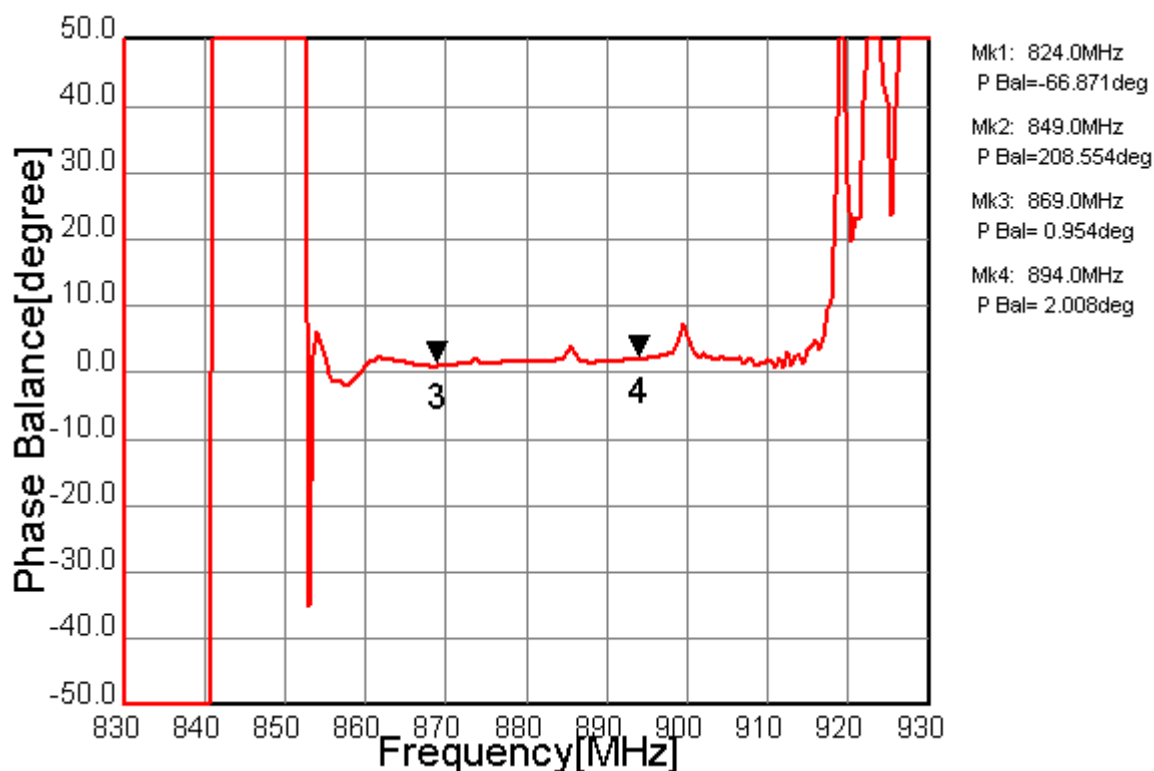


Figure 3-6. Electrical Characteristics

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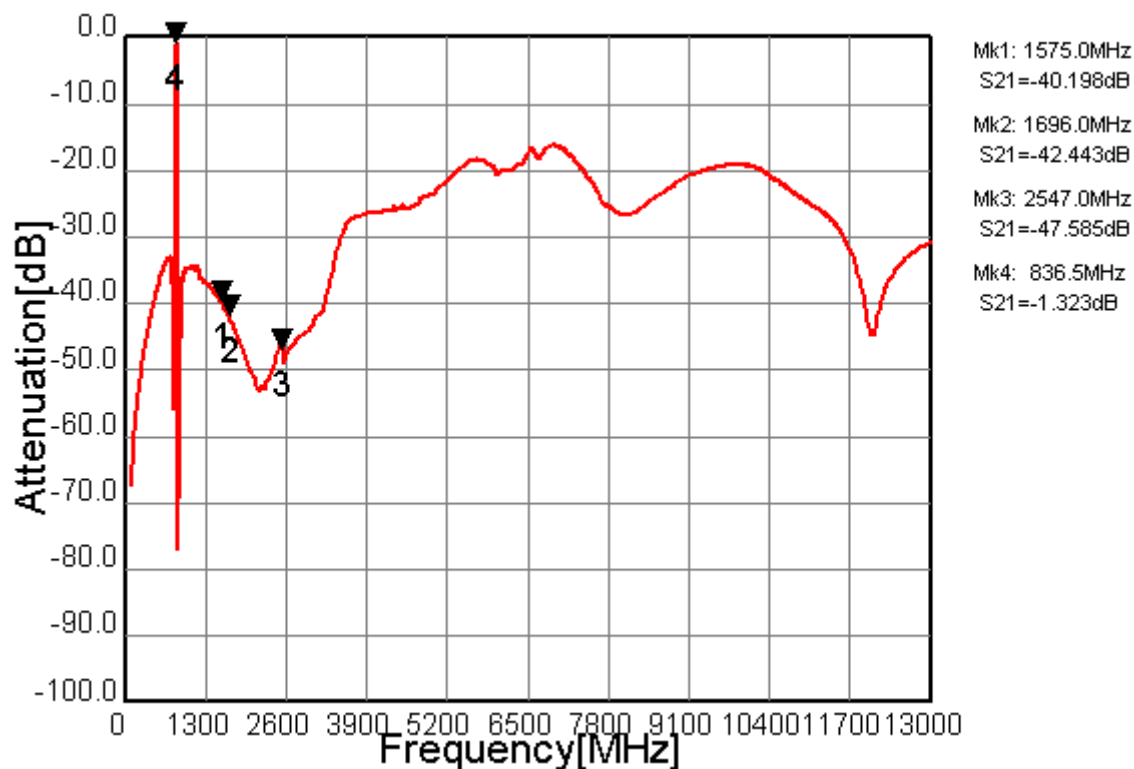
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Tx to Ant (Wide Span)



Ant to Rx (Wide Span)

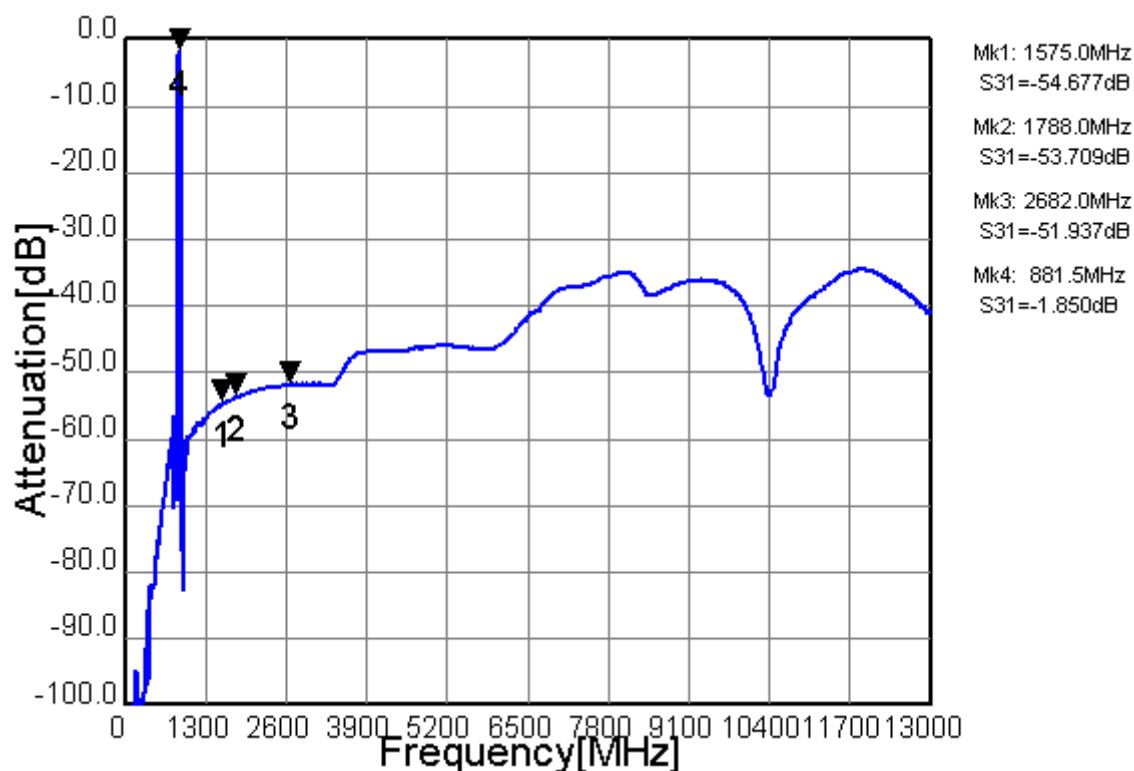


Figure 3-7. Electrical Characteristics

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Ordering Code

Ordering Code	Packing	Reel size	Status
D5NL881M5P1HY-Z	Tape & Reel	3,000 pcs.	MP
D5NL881M5P1HY-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5NL881M5P1HY-Q	Bulk	few pcs.	MP

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

*MP : Mass Production

Notice

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

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In case this product is used for general electronics equipment or circuits which require high safety and high reliability, thoroughly evaluate on safety and add a protection circuit if necessary.

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