



* Pb Free Part



MSL1

Customer Name	Standard	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band 17 Duplexer	Date	Aug. 19, 2013
Part Number	D5PE740M0P3NZ	Ver.2.1abA	Final

Table 1. Electrical Specification

Item		Condition (MHz)	Specification			Unit	Remarks
			Min	Typ	Max		
Tx to ANT	Insertion loss	704 - 716	-	1.9	2.6(*1)	dB	
	Ripple	704 - 716	-	0.8	1.5	dB	
	VSWR	704 - 716	-	1.5	2.0	-	
			-	1.7	2.1	-	
	Input Power	704 - 716	+29dBm, 50oC, 50000hrs			-	CW tone
	Absolute attenuation	DC - 686	30	42	-	dB	
		686 - 698	1	3.5	-	dB	
		722 - 728	2	5.5	-	dB	
		728 - 734	18	48	-	dB	
		734 - 746	45	58	-	dB	
		746 - 768	30	42	-	dB	
		768 - 805	25	39	-	dB	
		869 - 894	30	39	-	dB	
		1408 - 1432	35	51	-	dB	
		1574 - 1577	45	51	-	dB	
		1805 - 1880	30	42	-	dB	
		1930 - 1990	30	40	-	dB	
		2110 - 2170	34	38	-	dB	
		2400 - 2500	30	34	-	dB	
		2500 - 3000	15	30	-	d B	

(*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		734 - 746	-	2.0	2.6(*1)	dB	
	Ripple		734 - 746	-	0.8	1.4	dB	
	VSWR	ANT	734 - 746	-	1.5	2.0	-	
		Rx		-	1.6	2.0	-	
	Phase balance		734 - 746	-10	-3/+3	+10	deg	
	Amplitude balance		734 - 746	-1.3	-0.7/+0.7	+1.3	dB	
	Absolute attenuation		DC - 704	53	61		dB	
			704 - 716	50	64	-	dB	
			716 - 722	40	59	-	dB	
			722 - 727	15	39	-	dB	
			727 - 728	2	38	-	dB	
			776 - 805	35	38	-	dB	
			805 - 6000	30	49	-	dB	
Tx to Rx	Isolation		704 - 716	55	63	-	dB	Differential mode
				60	69	-	dB	Common mode
			734 - 746	50	60	-	dB	
Terminating Impedance			Tx port	50			Ohm	Single-ended
			Rx port	100			Ohm	Differential
			Ant port	50//12nH(Q=∞)			Ohm	Single-ended
Operating Temperature				-30 to +85			°C	
Device size (LxWxH)				2.0(typ) x 1.6(typ) x 0.5(max)			mm	

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



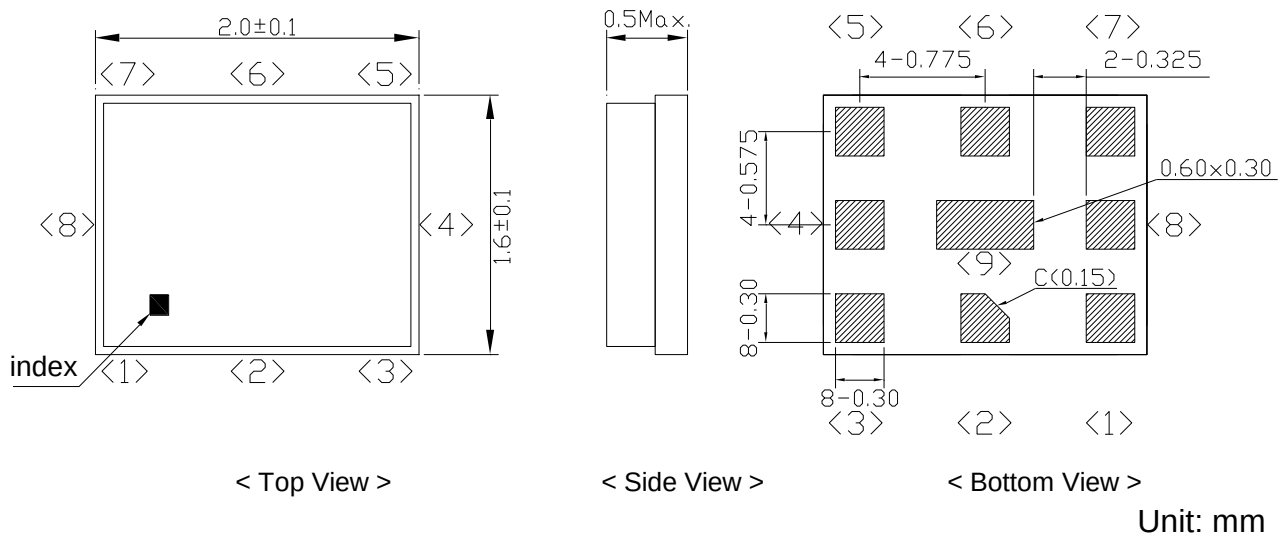
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Dimensions



Pin Configuration

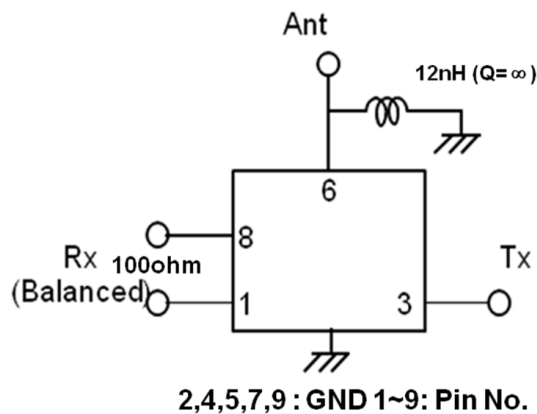
Pin No.	Pin name	Description
1	Rx	Receiver Pin (balanced)
2	GND	Ground Pin
3	Tx	Transmitter Pin
4	GND	Ground Pin
5	GND	Ground Pin
6	ANT	Antenna Pin
7	GND	Ground Pin
8	Rx	Receiver Pin (balanced)
9	GND	Ground Pin

Figure 1. Dimensions and Pin assignment

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Evaluation Circuit



Recommended foot print pattern

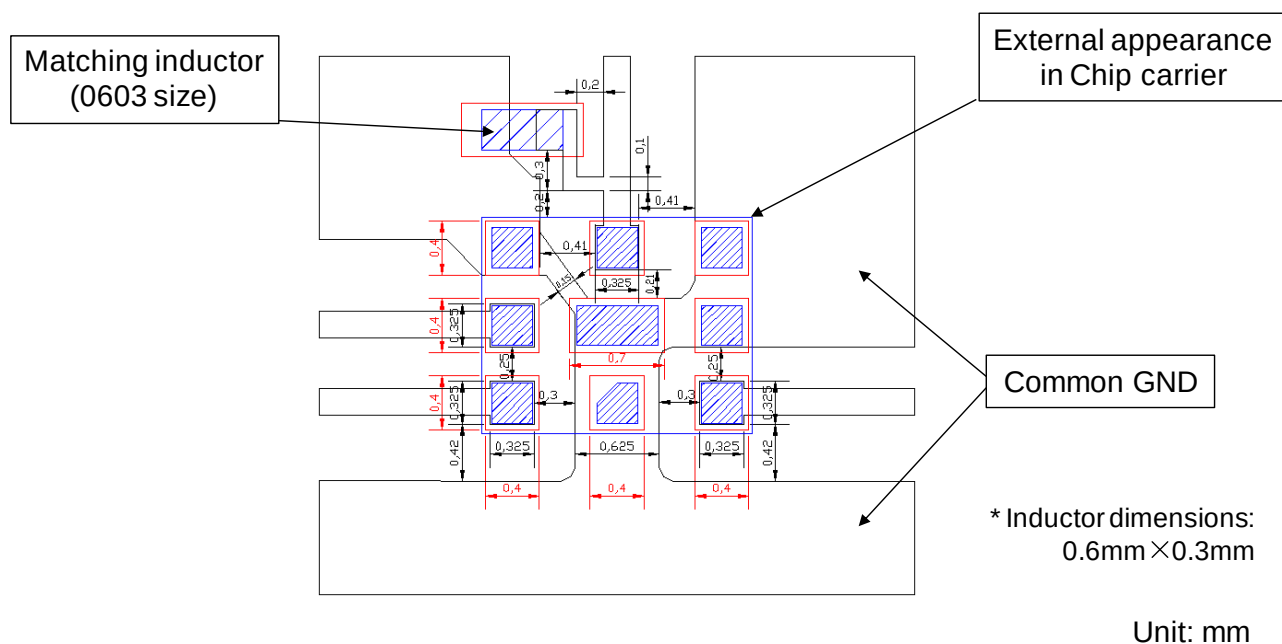


Figure 2. Recommended foot print pattern



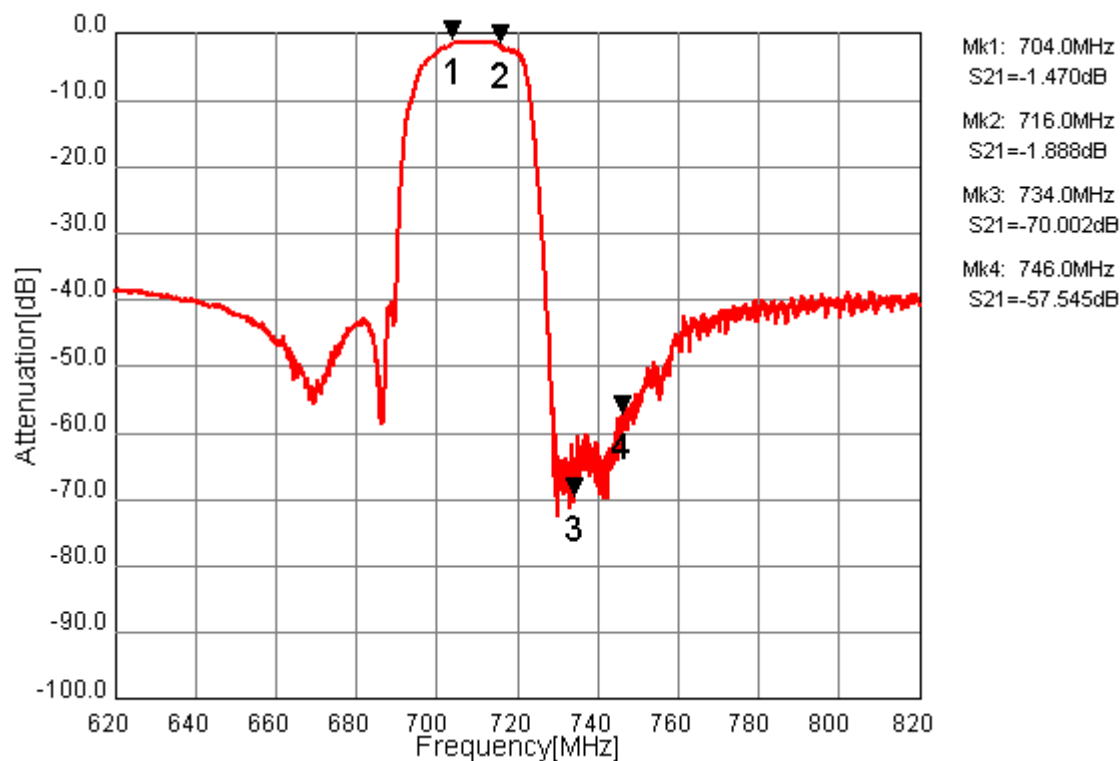
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Tx to Ant



Ant to Rx

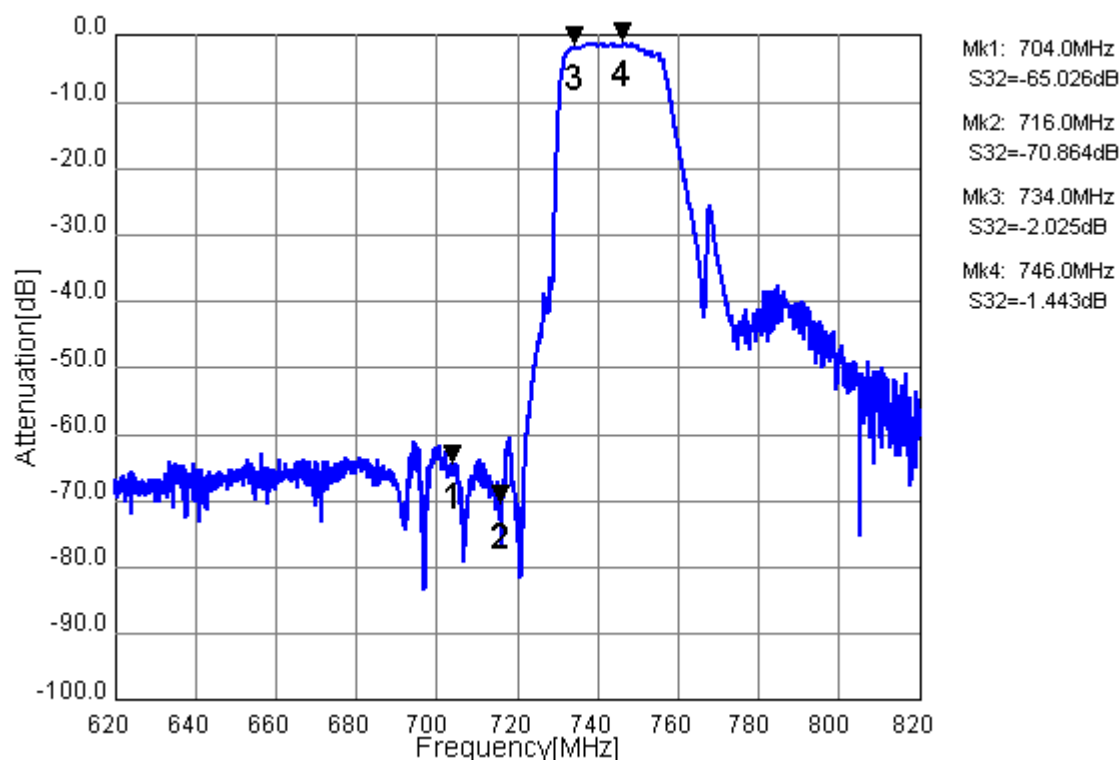


Figure 3-1. Electrical Characteristics

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

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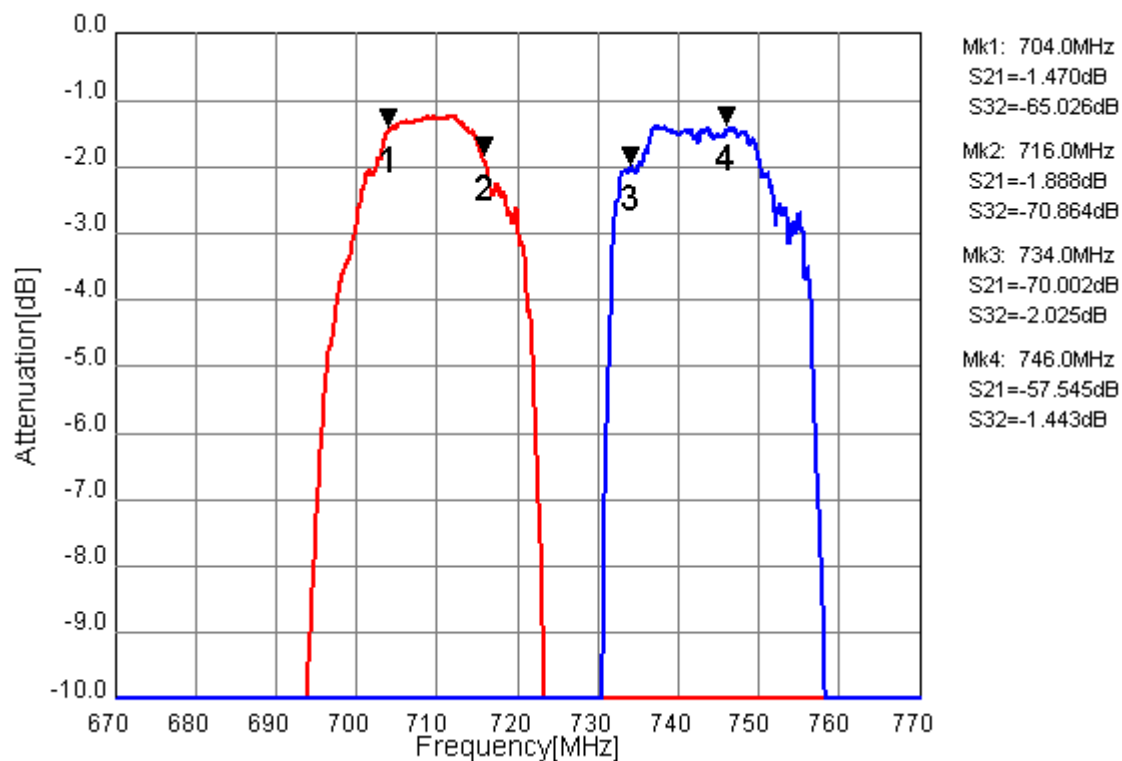
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Tx to Ant, Ant to Rx



Tx to Rx Isolation

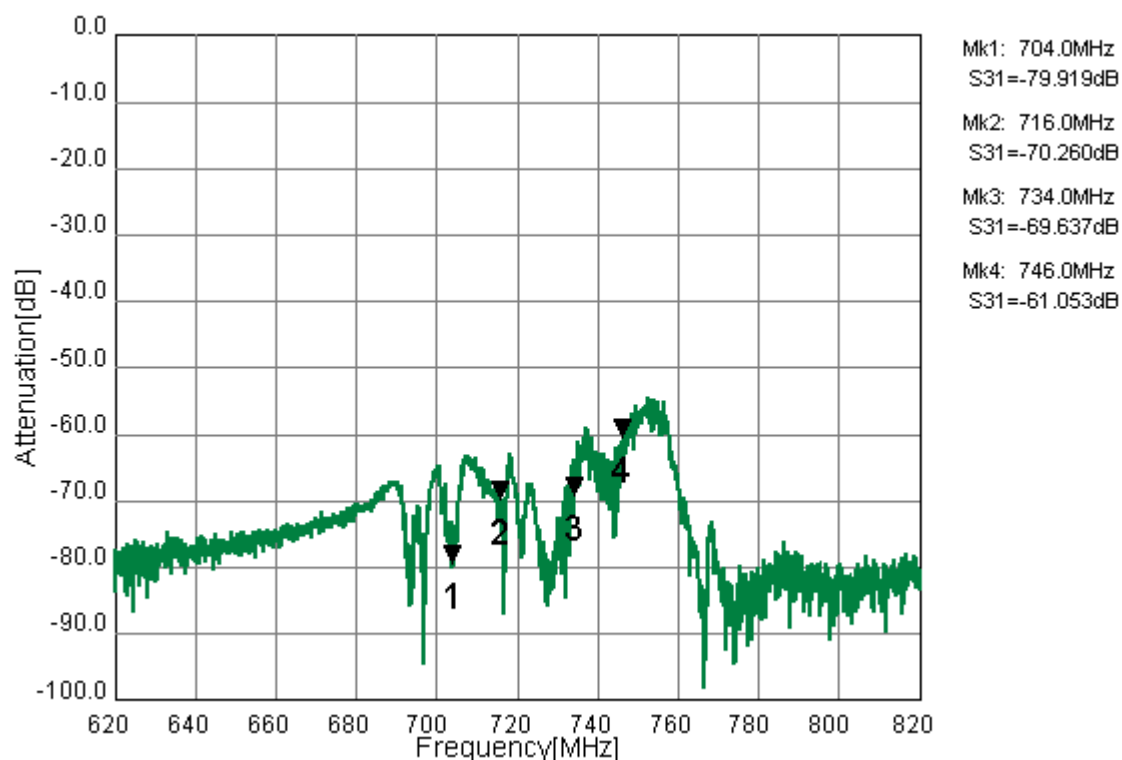


Figure 3-2. Electrical Characteristics

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

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Tx Port

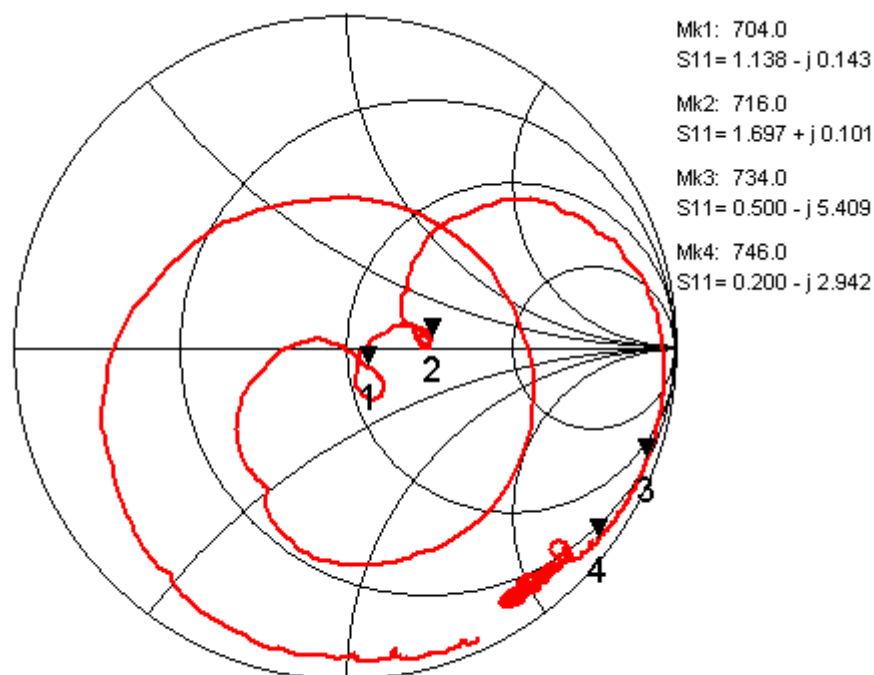
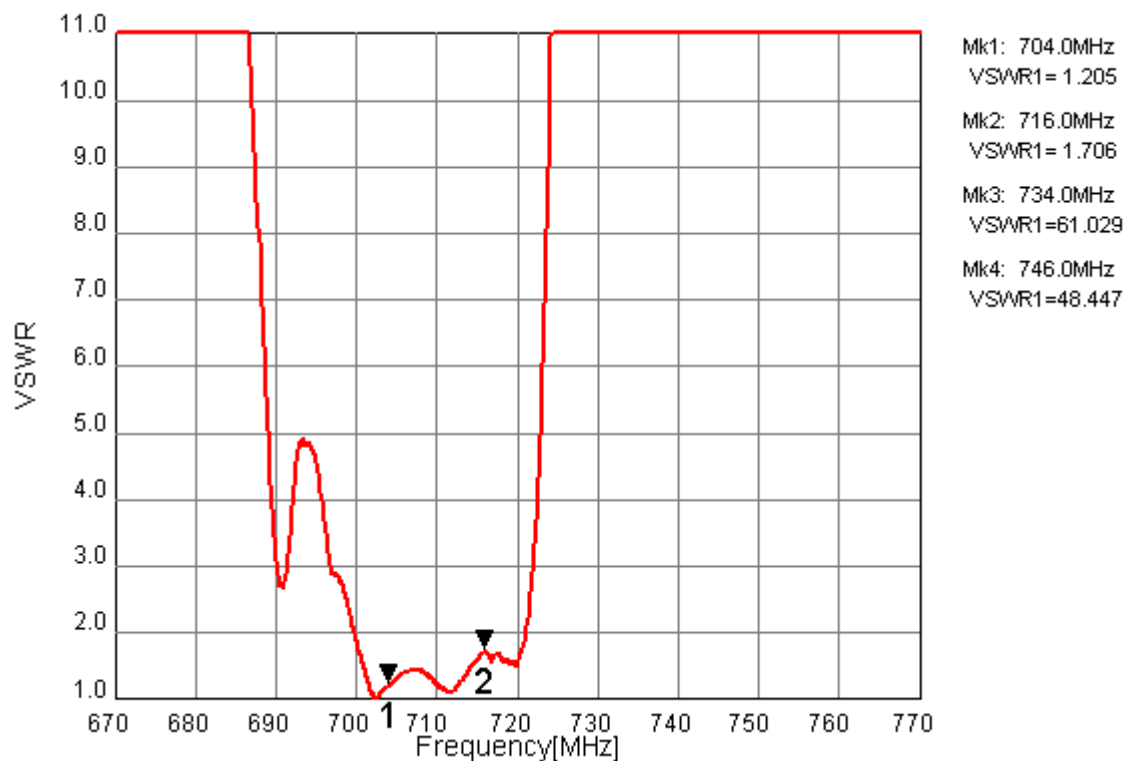


Figure 3-3. Electrical Characteristics

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Rx Port

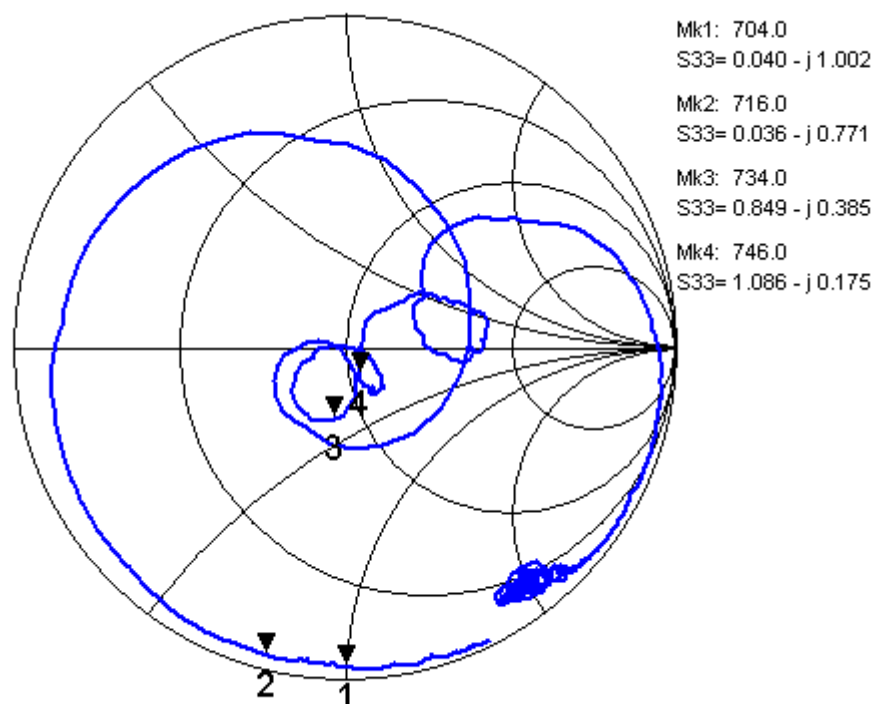
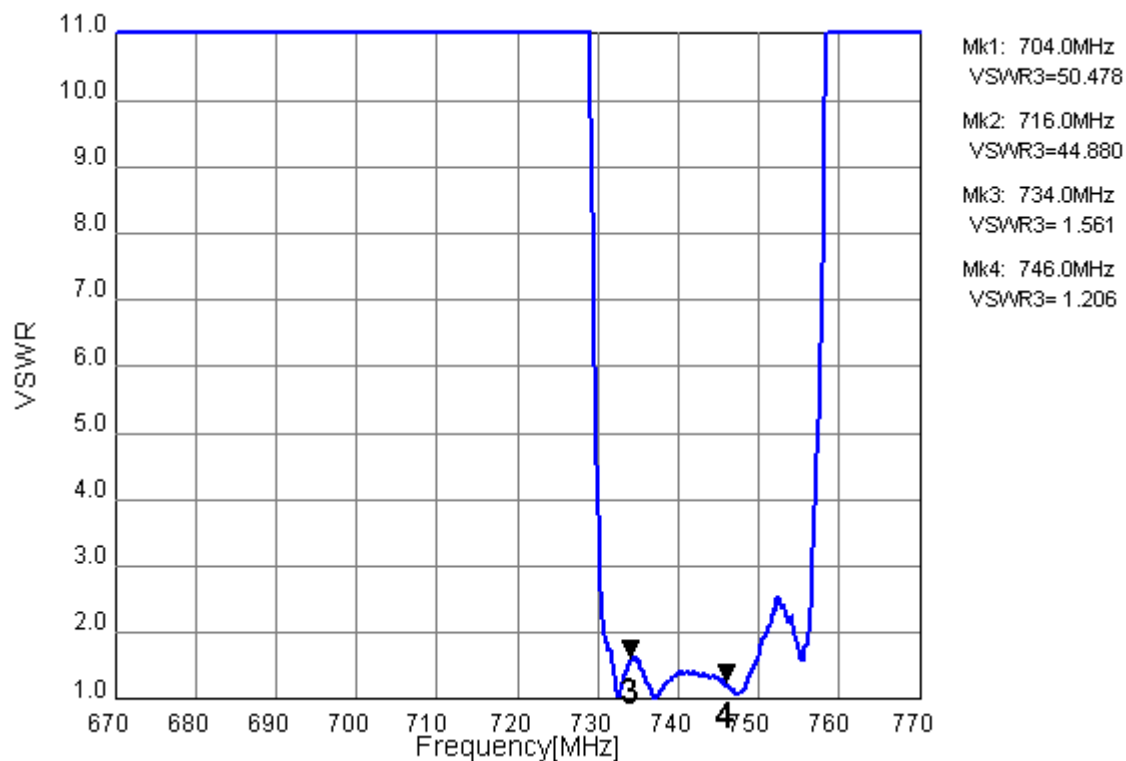


Figure 3-4. Electrical Characteristics

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Ant Port

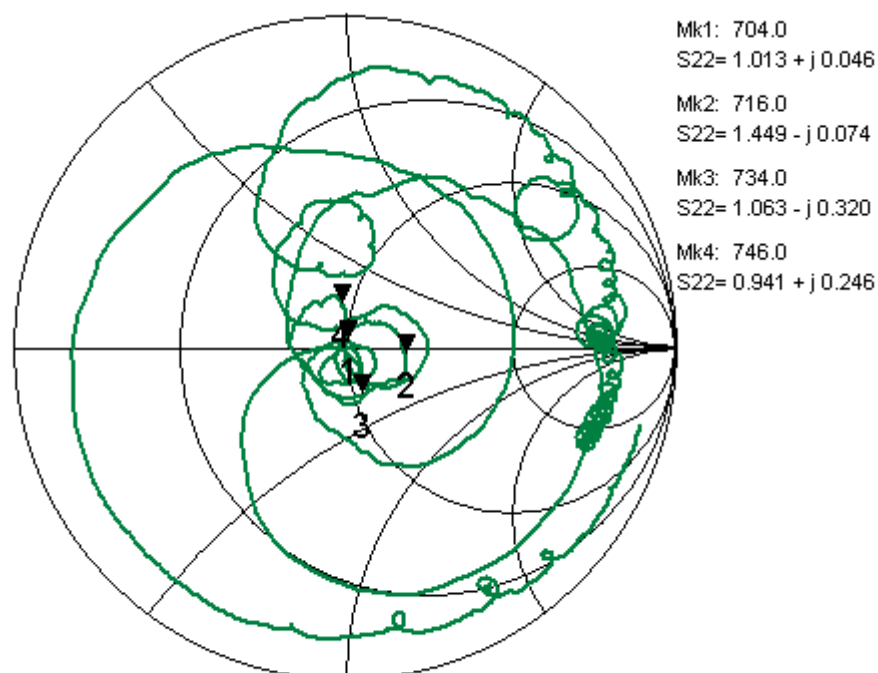
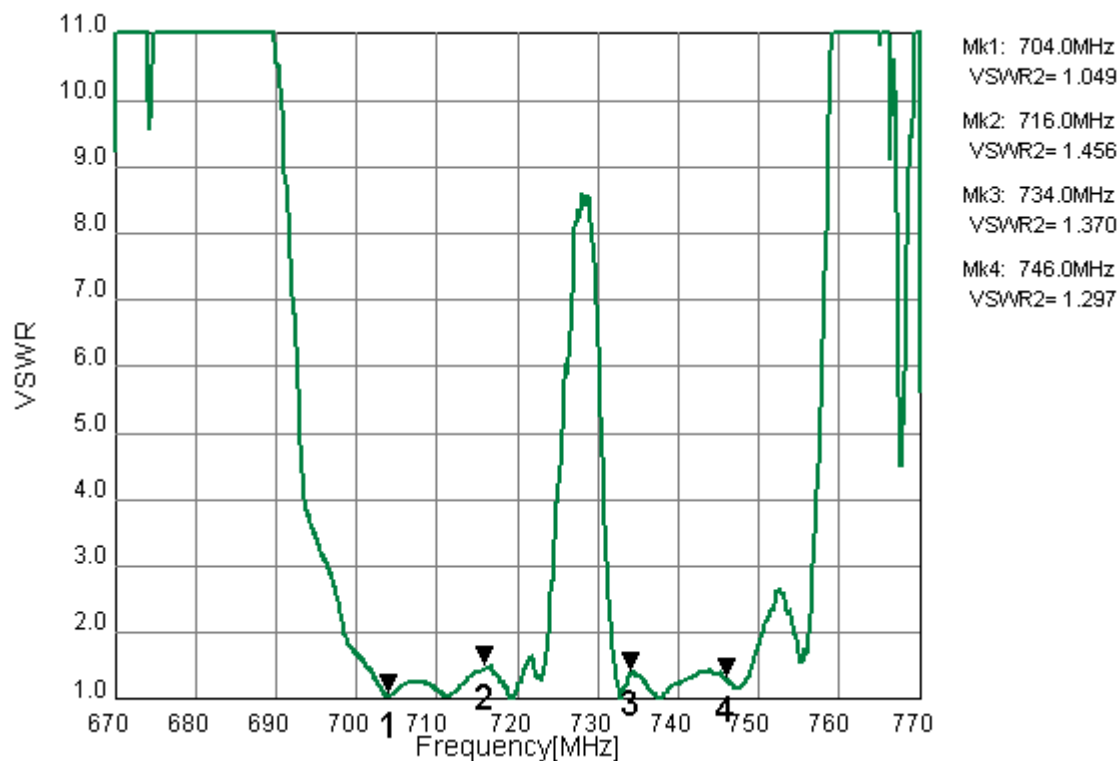


Figure 3-5. Electrical Characteristics

TAIYO YUDEN



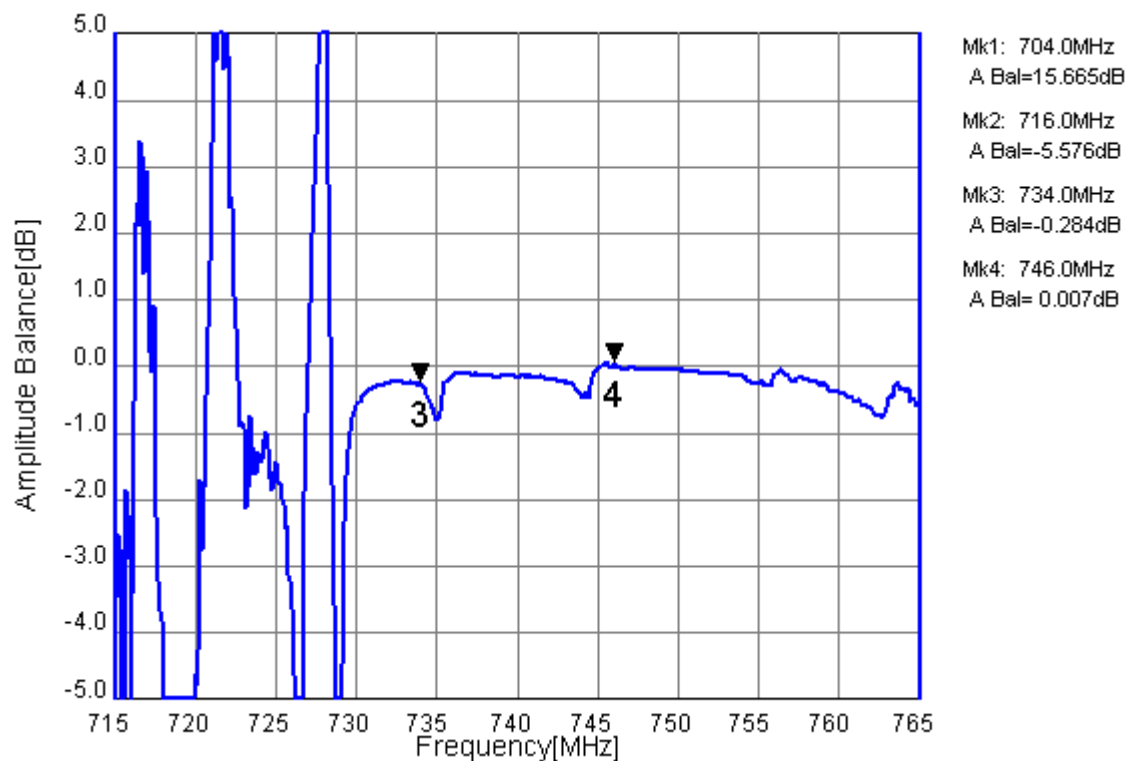
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Ant to Rx (Amplitude balance)



Ant to Rx (Phase balance)

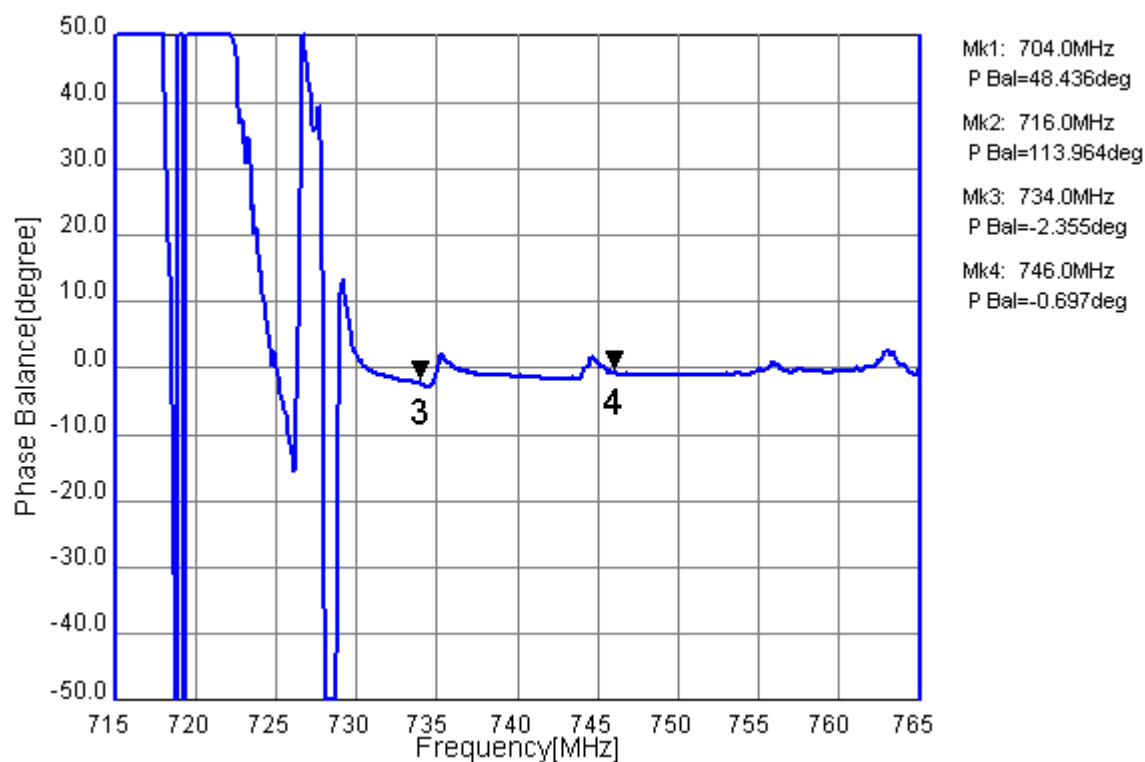


Figure 3-6. Electrical Characteristics

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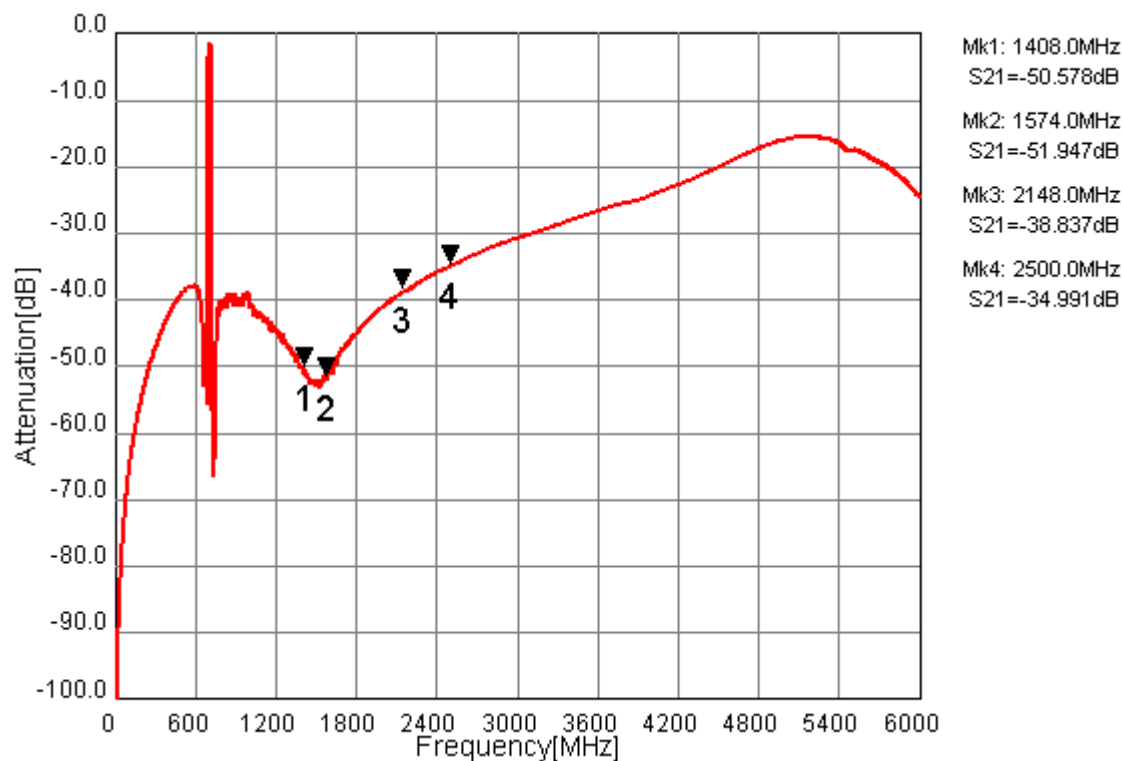
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Tx to Ant (Wide Span)



Ant to Rx (Wide Span)

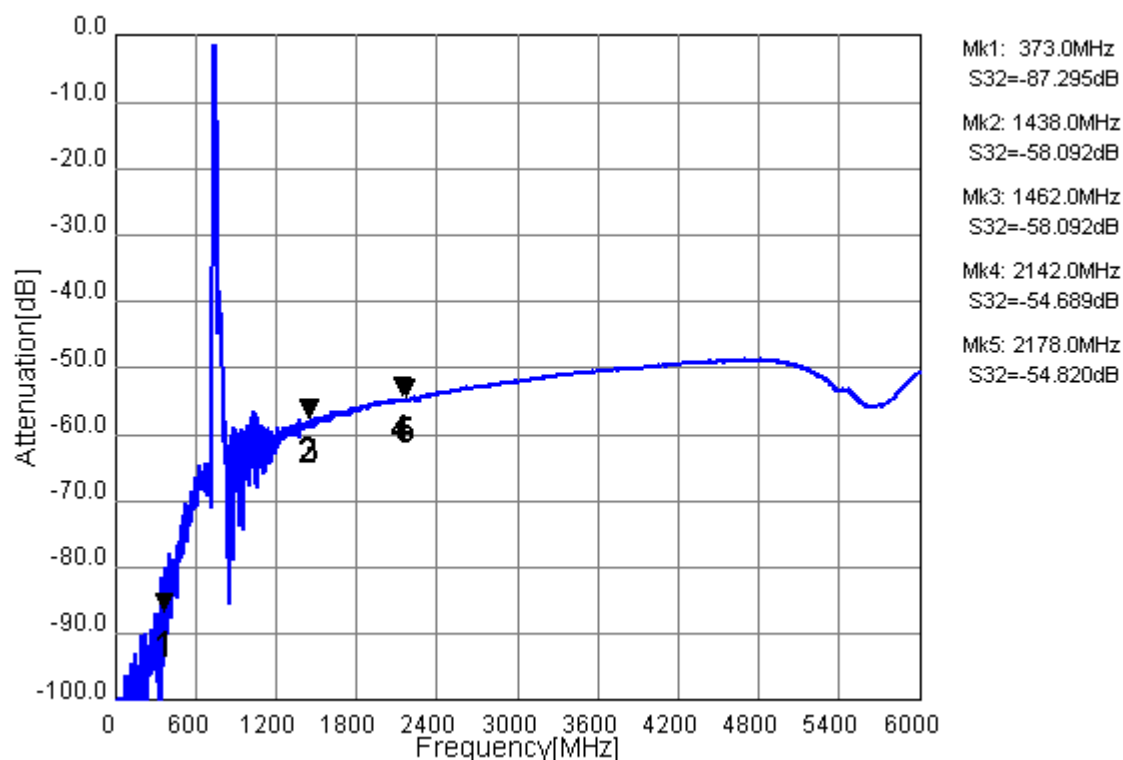


Figure 3-7. Electrical Characteristics

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Ordering Code

Ordering Code	Packing	Reel size	Status
D5PE740M0P3NZ-Z	Tape & Reel	3,000 pcs.	MP
D5PE740M0P3NZ-ZA	Tape & Reel	less than 3,000 pcs.	MP
D5PE740M0P3NZ-Y	Tape & Reel	15,000 pcs.	MP
D5PE740M0P3NZ-YA	Tape & Reel	less than 15,000 pcs.	MP
D5PE740M0P3NZ-Q	Bulk	few pcs.	MP

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

*MP : Mass Production

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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.

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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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