



MSL1

\* Pb Free Part

Customer Name	Standard specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	GPS+GLONASS+Compass	DATE	Jun. 10, 2014
Part Number	F6QA1G582H2JM	Version 2.1bA	<b>Final</b>

**Table 1. Electrical specification**

Passband: 1559.05 ~ 1605.89 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	1574.42 – 1576.42	-	1.2	1.7	dB	(*1)
	1597.55 – 1605.89	-	1.8	2.5	dB	(*1)
	1559.05 – 1563.14	-	1.7	2.5	dB	(*1)
Ripple	1574.42 – 1576.42	-	0.1	0.8	dB	
	1597.55 – 1605.89	-	0.55	1.4	dB	
	1559.05 – 1563.14	-	0.2	1.2	dB	
VSWR(Input)	1574.42 – 1576.42	-	1.5	2.1	-	
	1597.55 – 1605.89	-	1.4	2.0	-	
	1559.05 – 1563.14	-	1.5	2.0	-	
VSWR(Output)	1574.42 – 1576.42	-	1.5	2.1	-	
	1597.55 – 1605.89	-	1.4	2.0	-	
	1559.05 – 1563.14	-	1.5	2.0	-	
Group delay ripple	1574.42 – 1576.42	-	1.0	6.0	ns	
	1597.55 – 1605.89	-	4.0	12.5	ns	
	1559.05 – 1563.14	-	5.0	16	ns	
Absolute attenuation	699 – 716	43	47	-	dB	
	777 -787	45	46.5	-	dB	
	814 – 849	45	46.5	-	dB	
	880 – 915	45	46.5	-	dB	
	1427.9 – 1446.9	45	53	-	dB	
	1447.9 – 1462.9	45	54	-	dB	
	1710 – 1785	47	54	-	dB	
	1850 – 1915	47	54	-	dB	
	1920 – 1980	47	54	-	dB	
	2400 – 2500	45	50	-	dB	
2500 - 2570	45	50	-	dB		
Input Impedance	50			Ohm	Single-ended	
Output Impedance	50			Ohm	Single-ended	
Operating temp.	-30 to +85			°C		
Package size	1.1typ.x 0.9typ.x 0.5max.			mm		

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



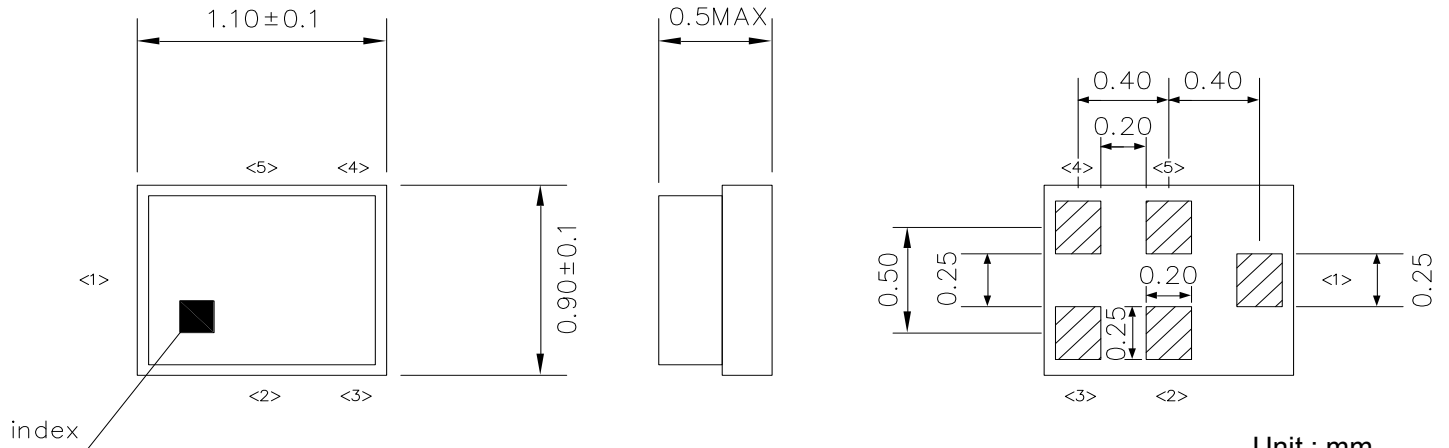
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### Dimensions

Device size: 1.1typ. x 0.9typ. x 0.5max

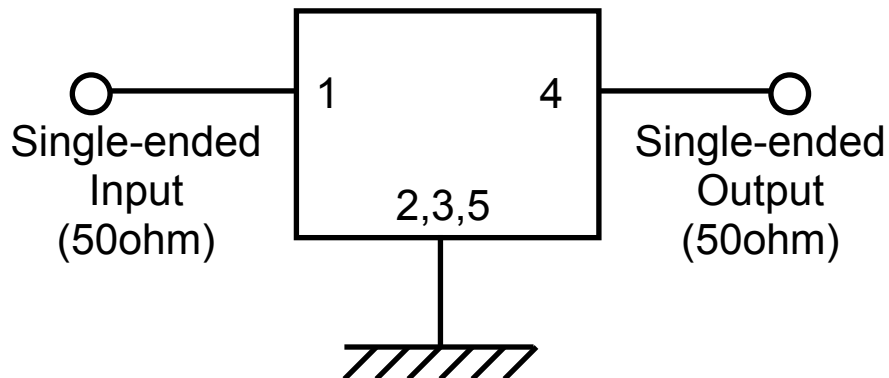


Unit : mm

### Pin Configuration

Pin No.	Symbol	Function
1	IN	Single-ended pin
2	GND	Ground
3	GND	Ground
4	OUT	Single-ended pin
5	GND	Ground

### Test Condition





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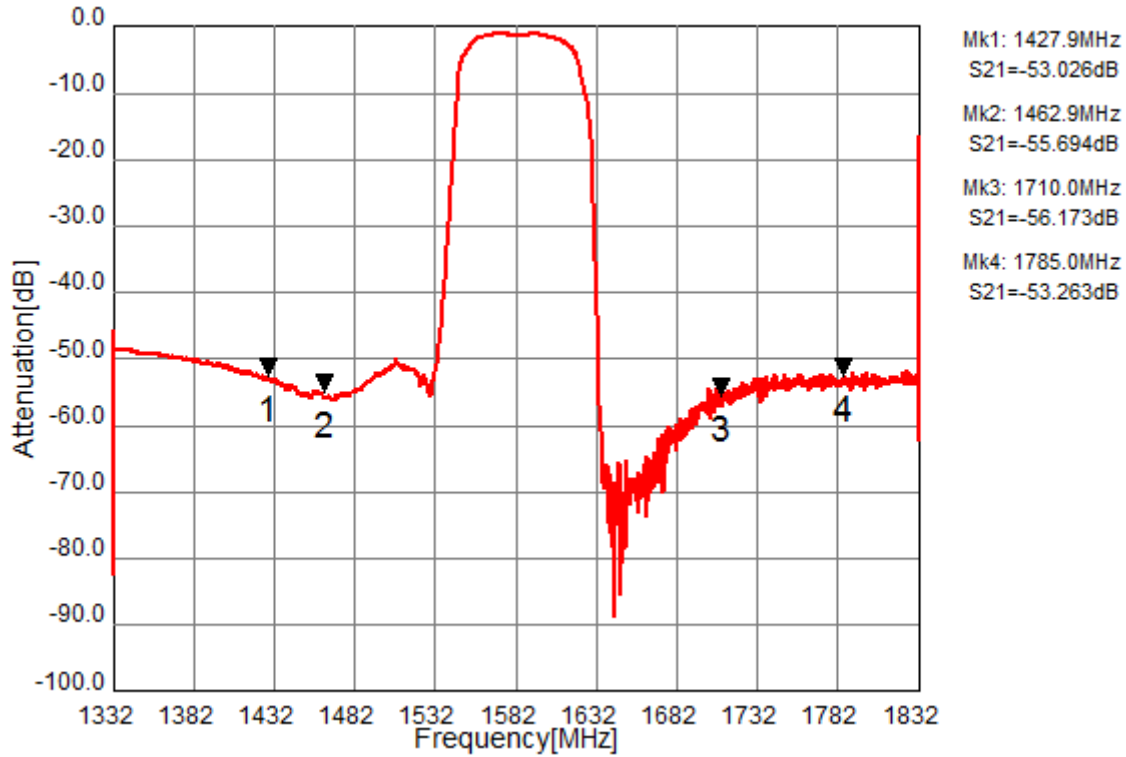


Fig.1 Pass-band Characteristics

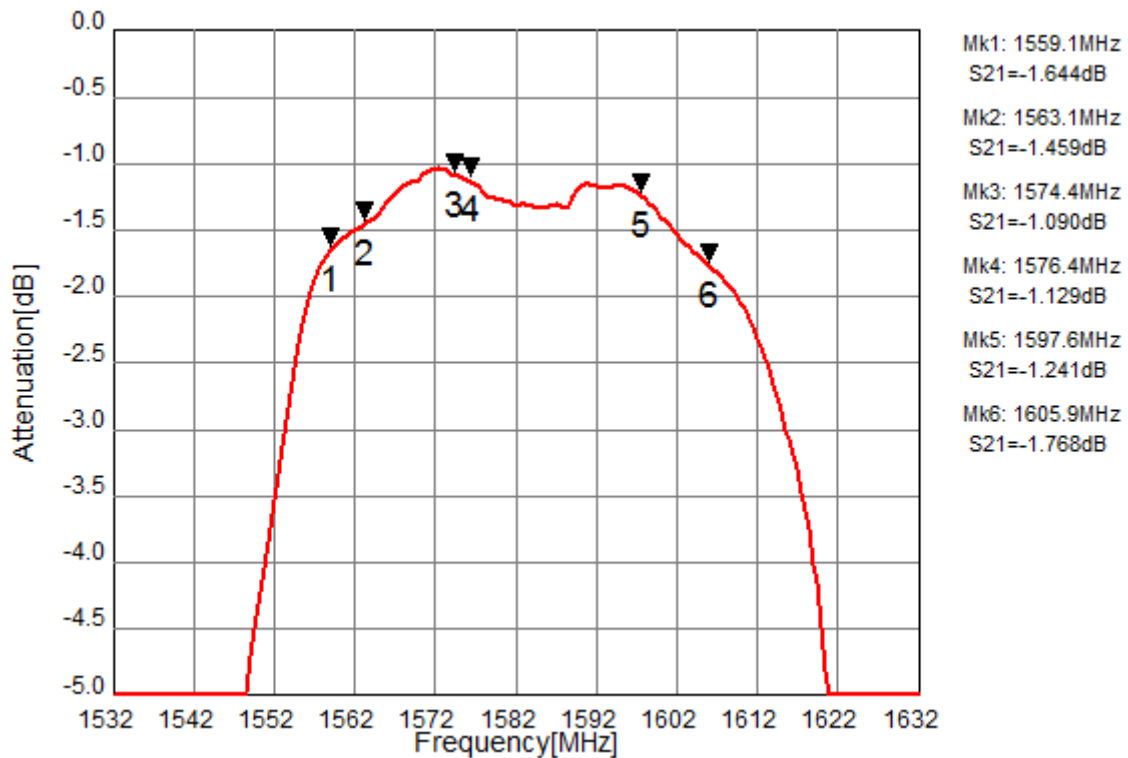


Fig.2 In-band Characteristics

**TAIYO YUDEN**



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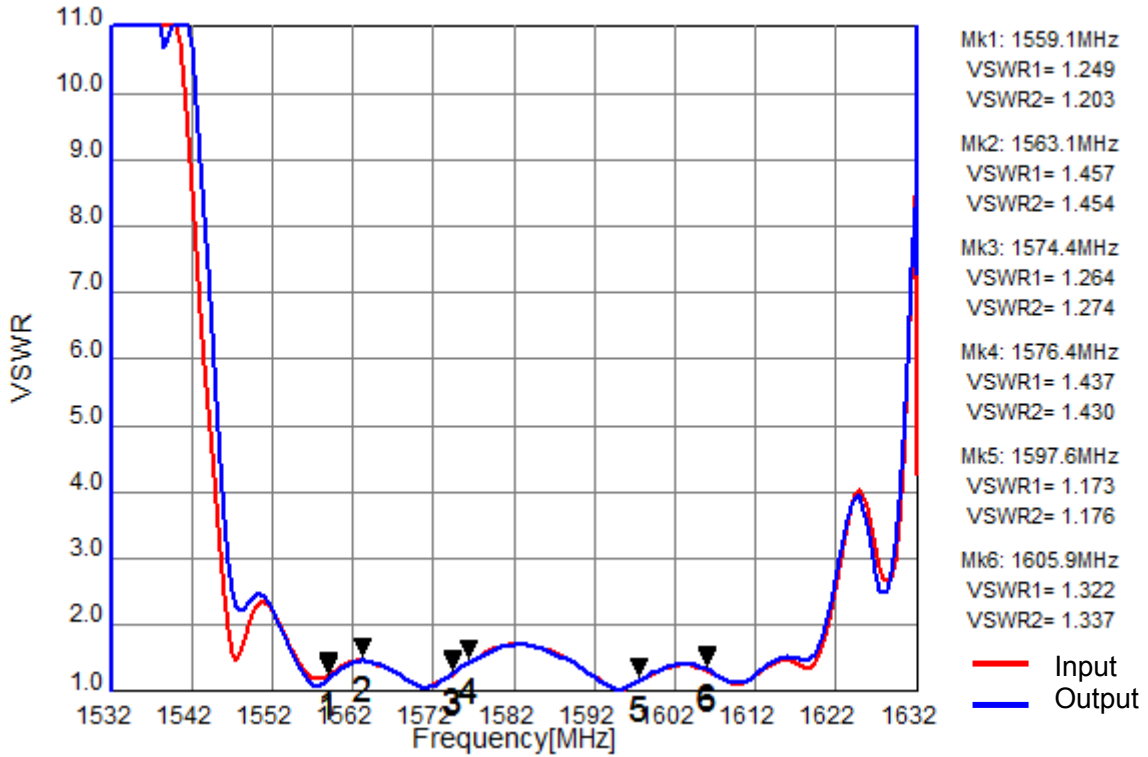


Fig.3 VSWR

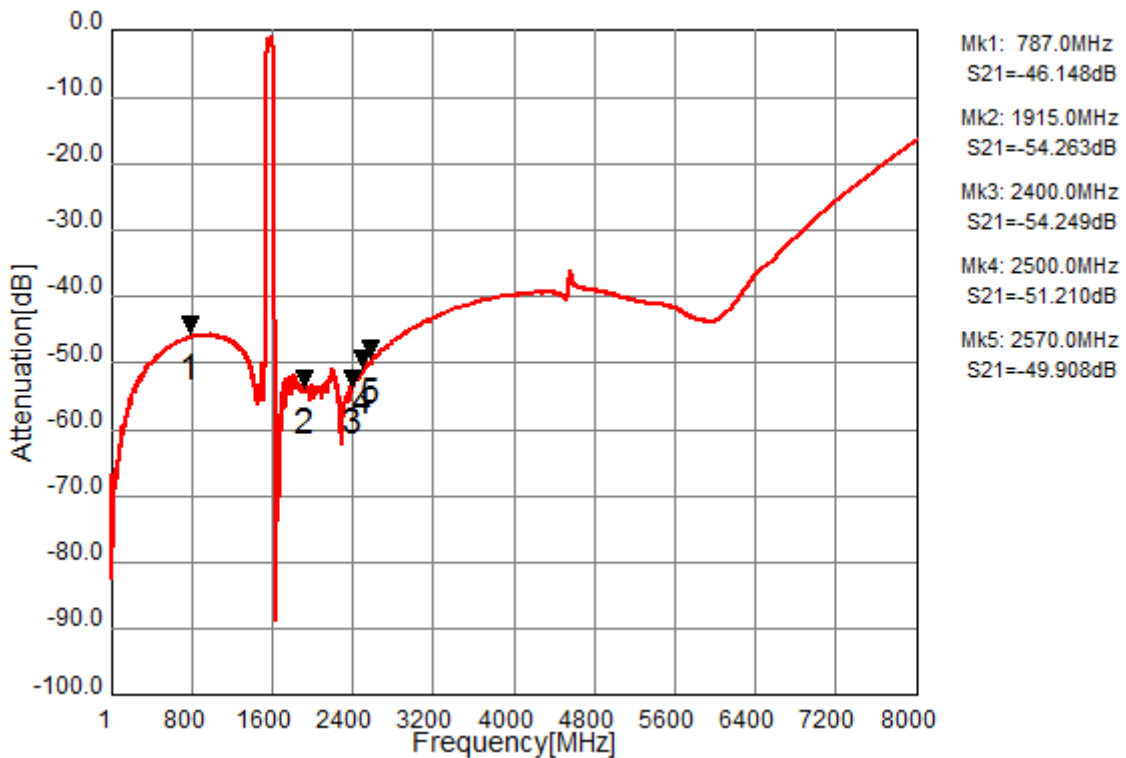


Fig.4 Wide-band Characteristics



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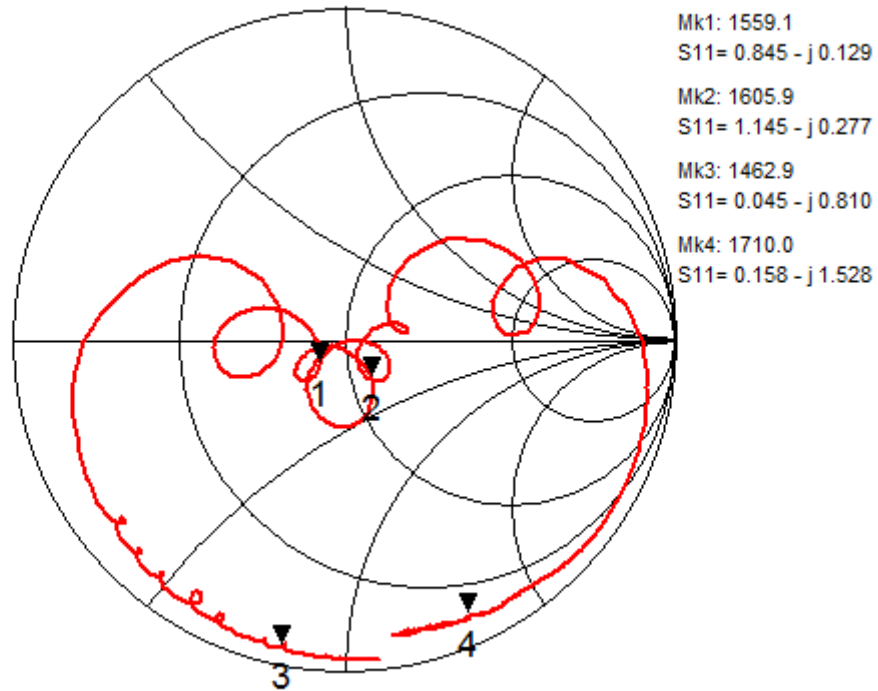


Fig.5 Input Impedance

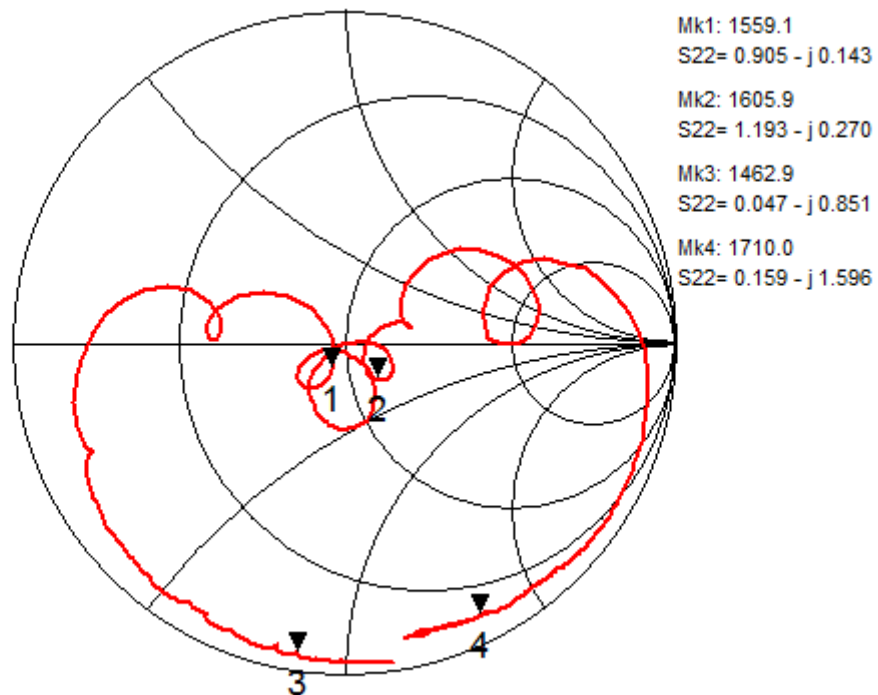


Fig.6 Output Impedance



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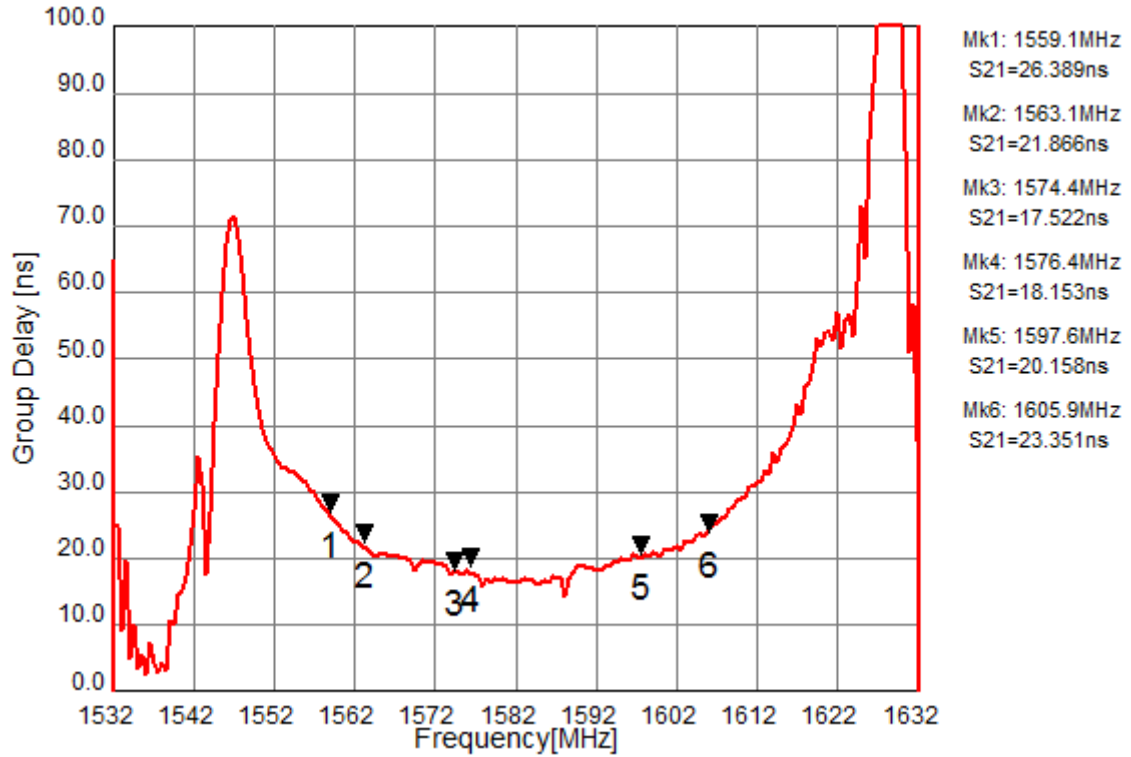


Fig7. Group delay



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## Ordering Code

Ordering Code	Packing	Reel size	Status
F6QA1G582H2JM-J	Tape & Reel	5,000pcs.	MP
F6QA1G582H2JM-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QA1G582H2JM-Y	Tape & Reel	15,000pcs	MP
F6QA1G582H2JM-YA	Tape & Reel	Less than 15,000pcs	MP
F6QA1G582H2JM-Q	Bulk	few pcs.	MP

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

\*MP: Mass Production

## 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.

This product is for general electronics equipment such as Audio-Visual equipment, household electronics, office supplies, information services and telecommunications; therefore, in case this product is used for any medical equipment, space equipment, nuclear equipment or disaster prevention equipment, please contact TAIYO YUDEN in advance.

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.