



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	Final

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.



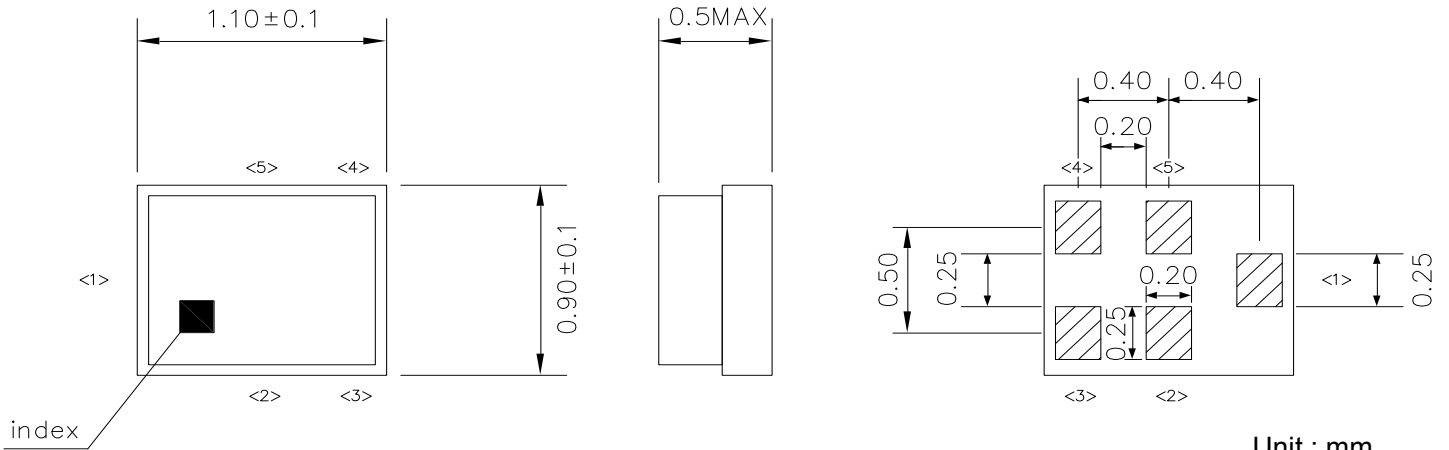
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Dimensions

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

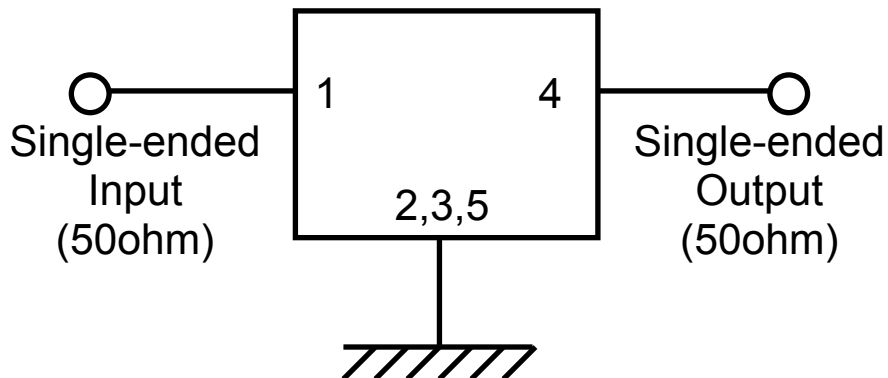


Unit : mm

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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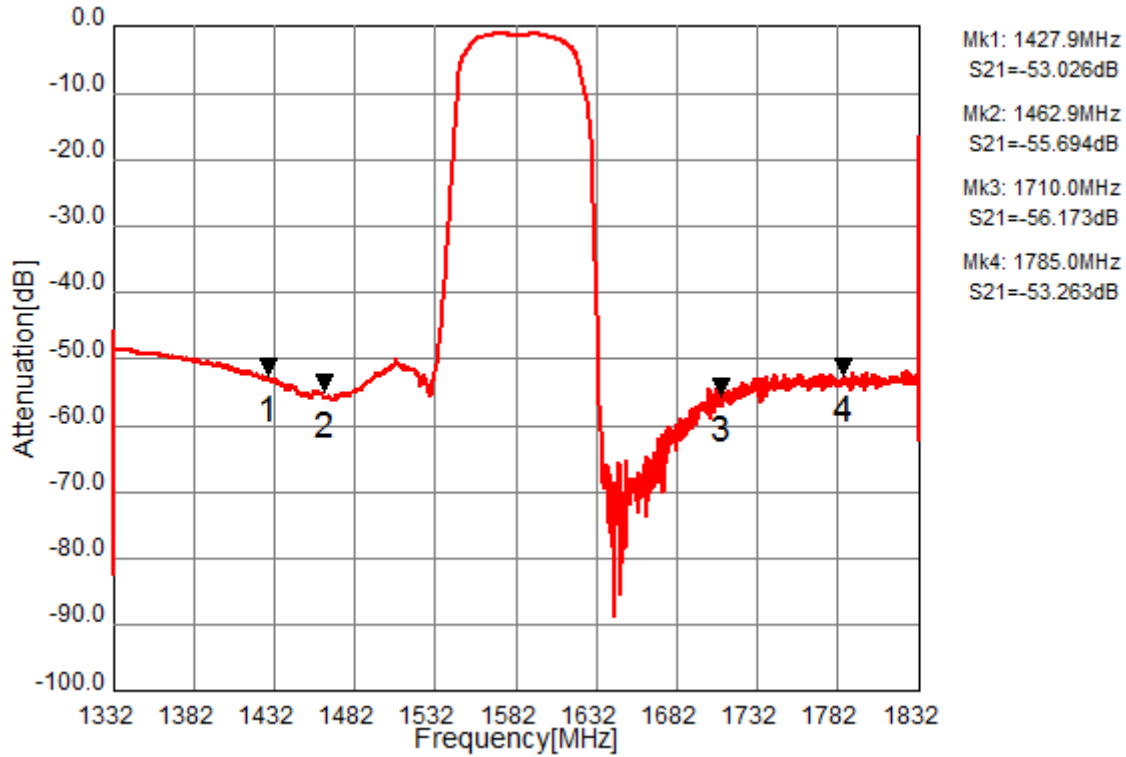


Fig.1 Pass-band Characteristics

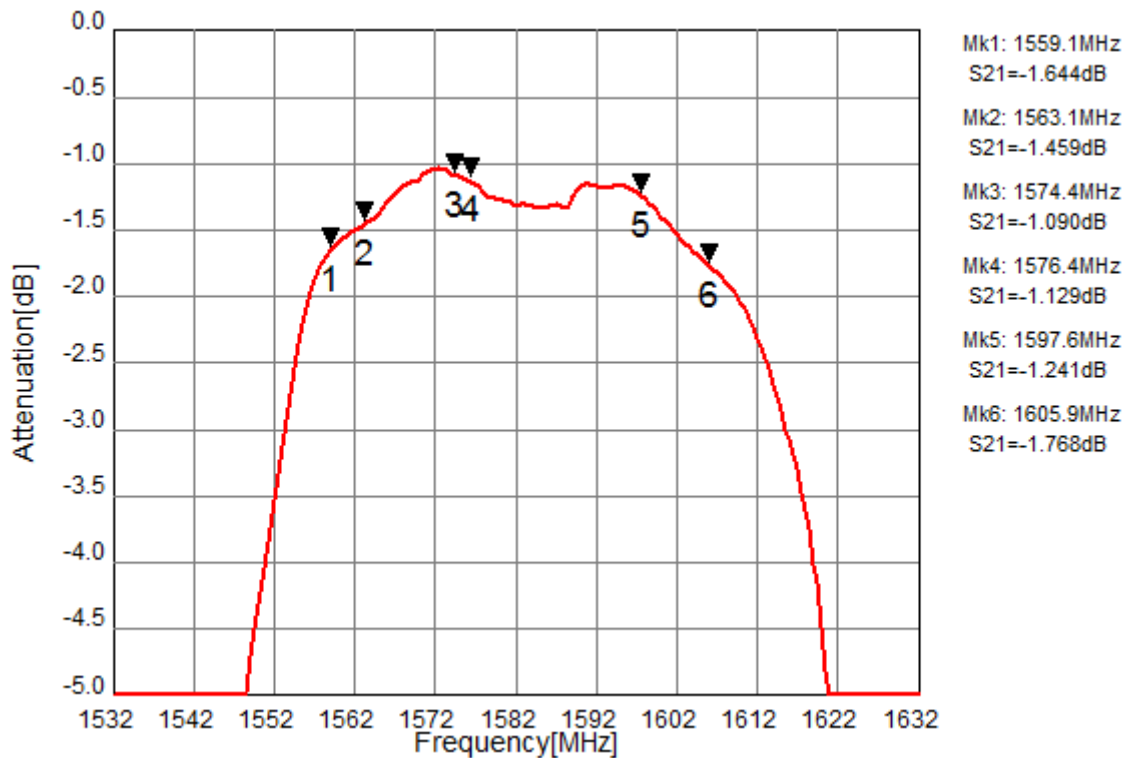


Fig.2 In-band Characteristics



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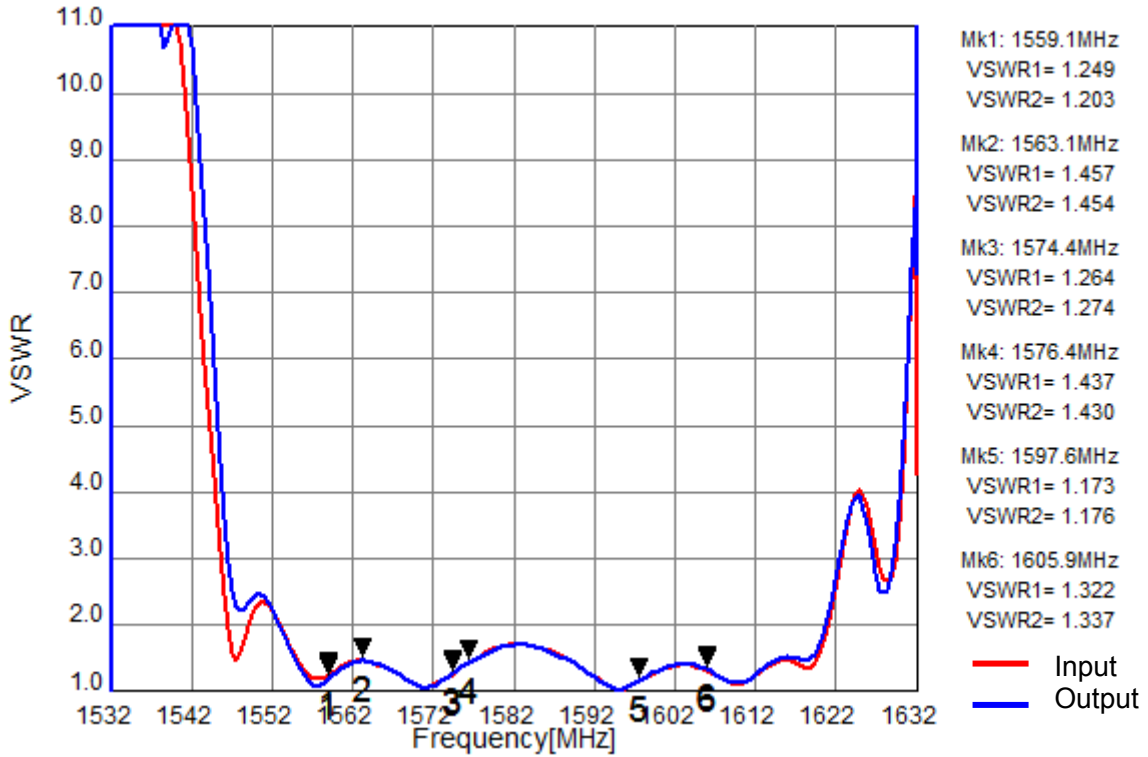


Fig.3 VSWR

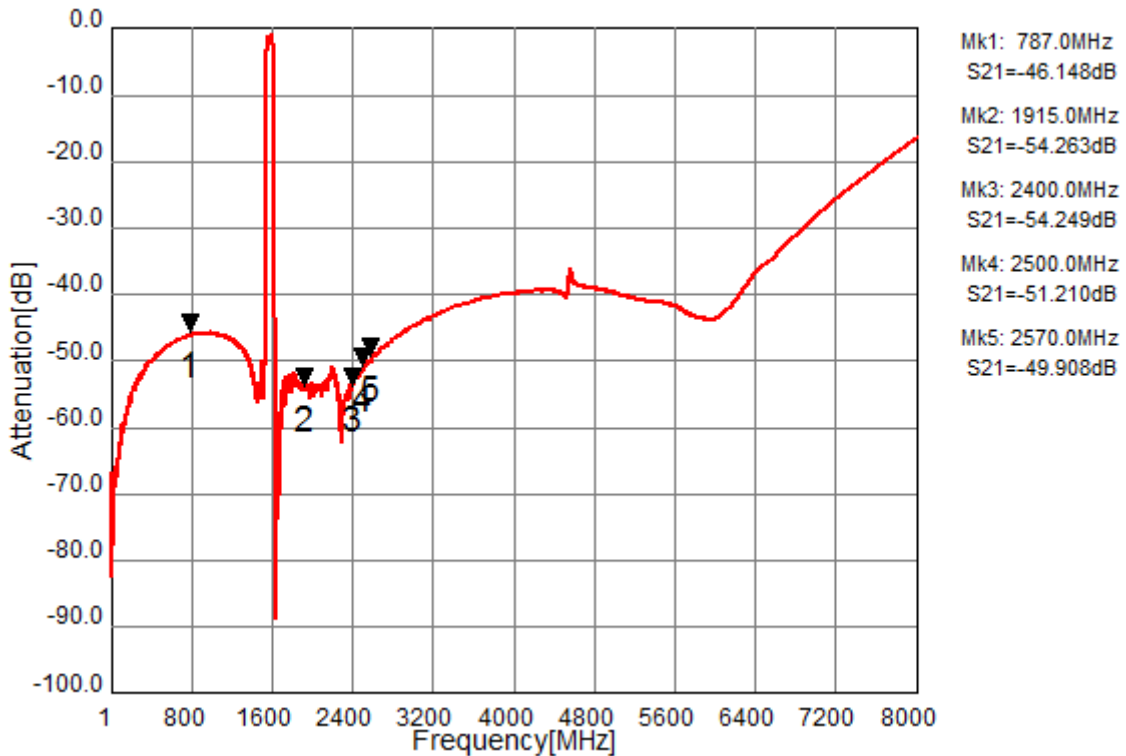


Fig.4 Wide-band Characteristics



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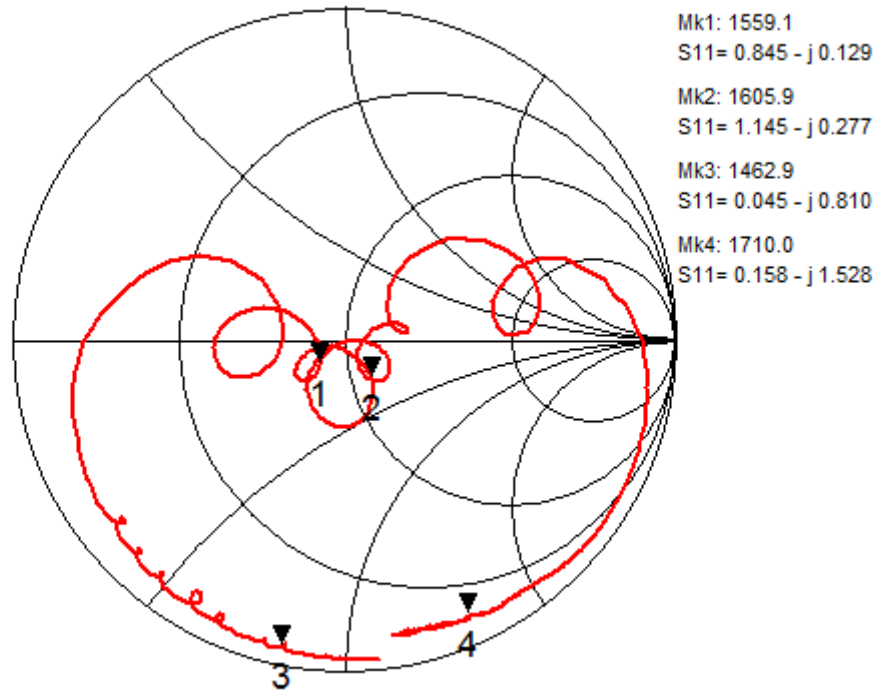


Fig.5 Input Impedance

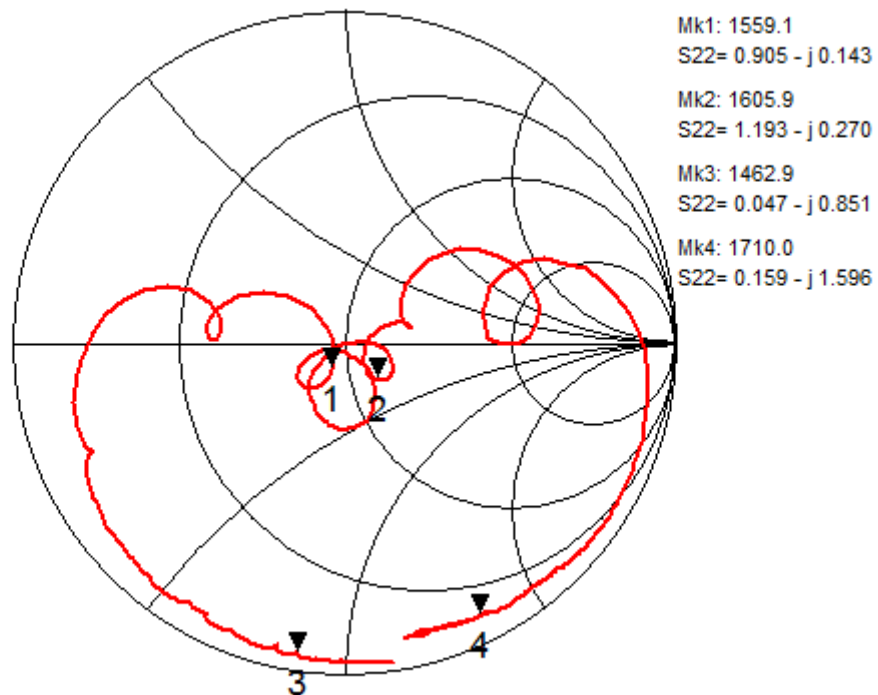


Fig.6 Output Impedance



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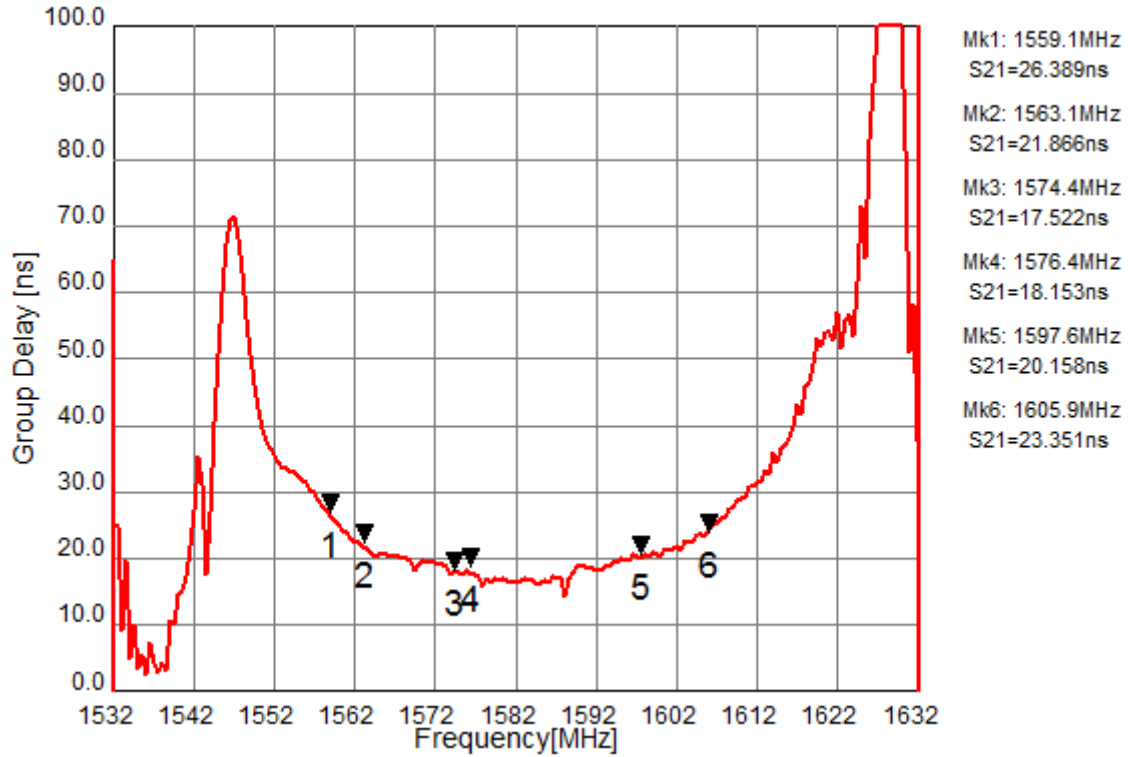


Fig7. Group delay



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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

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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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