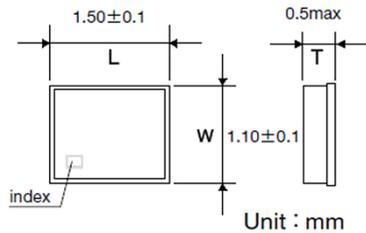


FBAR/SAW Devices (SAW Dual Type)

G6QE2G595N2EJ



■ Features

- Item Summary
SAW, Rx Dual Type, 1.5x1.1x0.5mm
Band38 / Band40
- Lifecycle Stage
Non-preferred
- Standard packaging quantity (minimum)
Taping Embossed 5000 , 15000pcs

■ Products characteristics table

System	TD-LTE
Type	SAW
Function	Rx Dual Type
band (f1)	Band38
Insertion Loss (typ)	2.9 dB
band (f2)	Band40
Insertion Loss (f2)(typ)	2.8 dB
Operating Temp. Range	-20 to +85 °C
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (173 subst.)	Yes
Halogen Free	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	1.5 ± 0.10 mm
Dimension W	1.1 ± 0.10 mm
Dimension T	Max 0.5 mm

The data is reference only. Electrical characteristics vary depending on environment or measurement condition.
 TAIYO YUDEN reserves the right to make change to the data at any time without notice.
 Before making final selection, please check product specification.

2017.09.12



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band38 /Band40- Rx(50/100ohm)	DATE	Apr.12, 2013
Part Number	G6QE2G595N2EJ	Version 1.0aa	Final

Table 1. Electrical specifications (Filter1)

Passband: 2570 ~ 2620 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	2570~2620	-	2.9	3.4	dB(*1)	
Ripple	2570~2620	-	0.7	1.3	dB	
VSWR (Input)	2570~2620	-	1.9	2.4	-	
VSWR (Output)	2570~2620	-	1.7	2.3	-	
Absolute attenuation	10~200	40	91	-	dB	
	200~2215	35	42	-	dB	
	2215~2240	20	43	-	dB	
	2430~2485	25	36	-	dB	
	2485~2510	35	47	-	dB	
	2680~3000	15	28	-	dB	
	3000~4800	24	34	-	dB	
	4800~5340	23	33	-	dB	
	5240~8000	15	30	-	dB	
Amplitude Balance S21 / S31	2570~2620	-1.0	+0.1/-0.4	+1.0	dB	
Phase Balance ($\Phi S21 - \Phi S31$)+180	2570~2620	-13	-4/-6	+13	deg.	
Input Impedance	Unbalanced	50			ohm	
Output Impedance	Balanced	100//5.1nH			ohm	
Operating Temperature		-20 ~ +85			°C	

(*1) Specification of insertion loss includes loss that comes from the test board. (0.15dB)



MSL1

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Table 2. Electrical specifications (Filter2)

Passband: 2300 ~ 2400 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss	2300~2400	-	2.8	3.5	dB(*1)	
Ripple	2300~2400	-	1.1	1.9	dB	
VSWR (Input)	2300~2400	-	1.9	2.4	-	
VSWR (Output)	2300~2400	-	1.7	2.3	-	
Absolute attenuation	10~200	40	108	-	dB	
	200~2000	35	42	-	dB	
	2000~2215	30	35	-	dB	
	2215~2240	20	37	-	dB	
	2430~2460	8	18	-	dB	
	2460~2485	21	26	-	dB	
	2485~3000	22	27	-	dB	
	3000~4800	24	34	-	dB	
	4800~5240	23	33	-	dB	
5240~8000	15	30	-	dB		
Amplitude Balance S21 / S31	2300~2400	-1.9	-1.3/-0.1	+1.9	dB	
Phase Balance (ΦS21-ΦS31)+180	2300~2400	-15	-8/+1	+15	deg.	
Input Impedance	Unbalanced	50//6.8nH			ohm	
Output Impedance	Balanced	100//5.1nH			ohm	
Operating Temperature		-20 ~ +85			°C	

(*1) Specification of insertion loss includes loss that comes from the test board. (0.15dB)



MSL1

*Pb Free part

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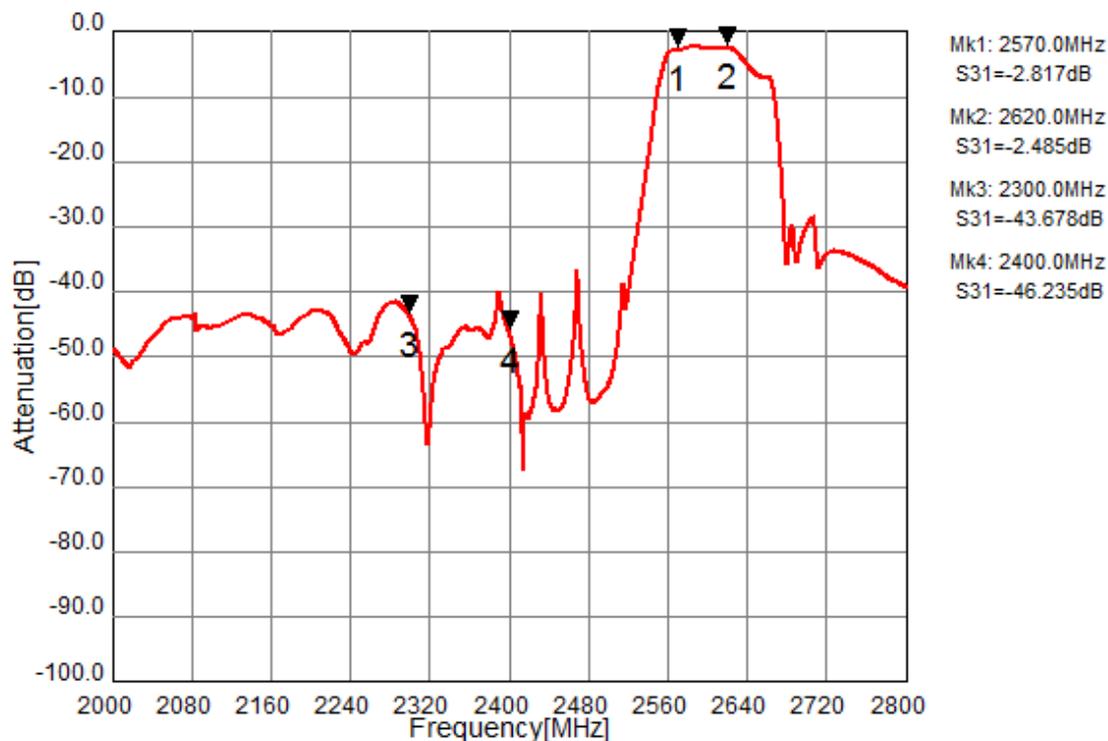


Fig.1 Pass-band Characteristics (Filter1)

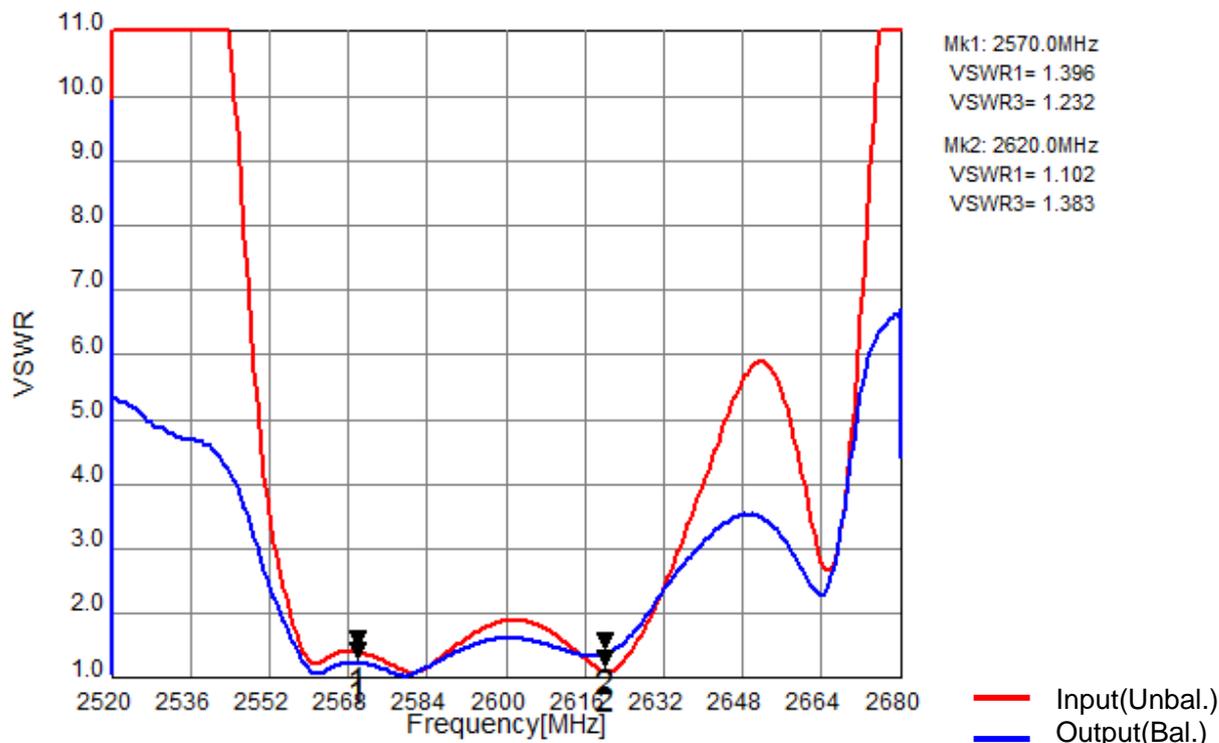


Fig.2 VSWR (Filter1)



MSL1

*Pb Free part

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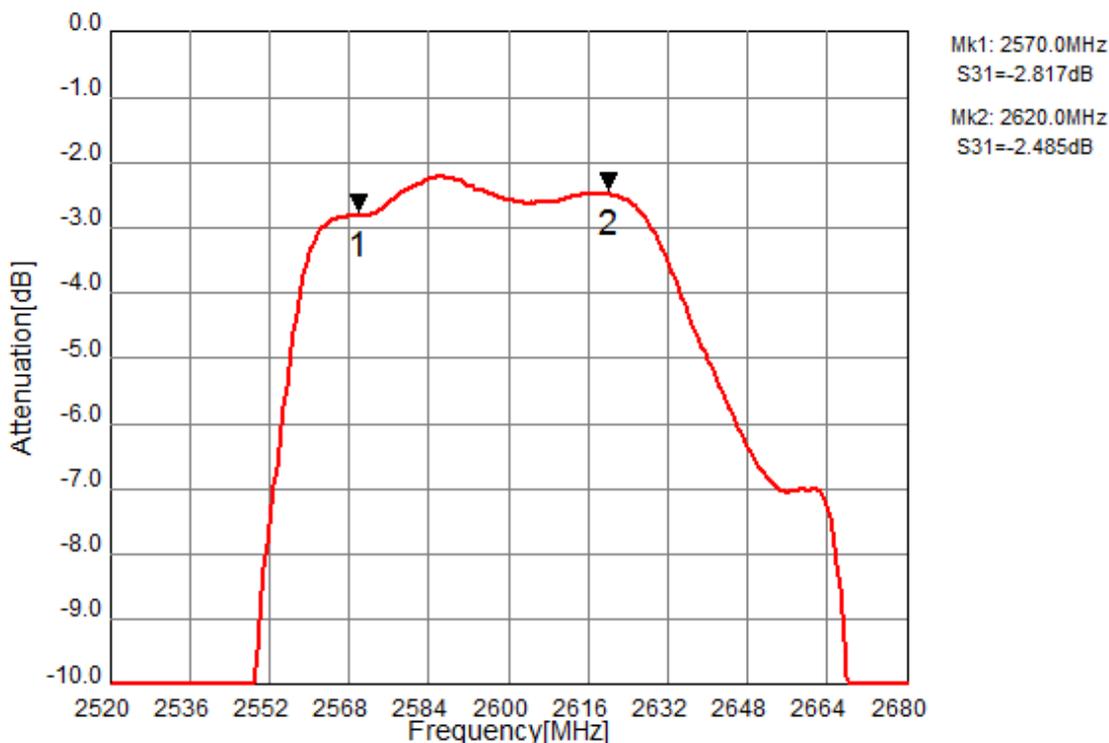


Fig.3 In-band Characteristics (Filter1)

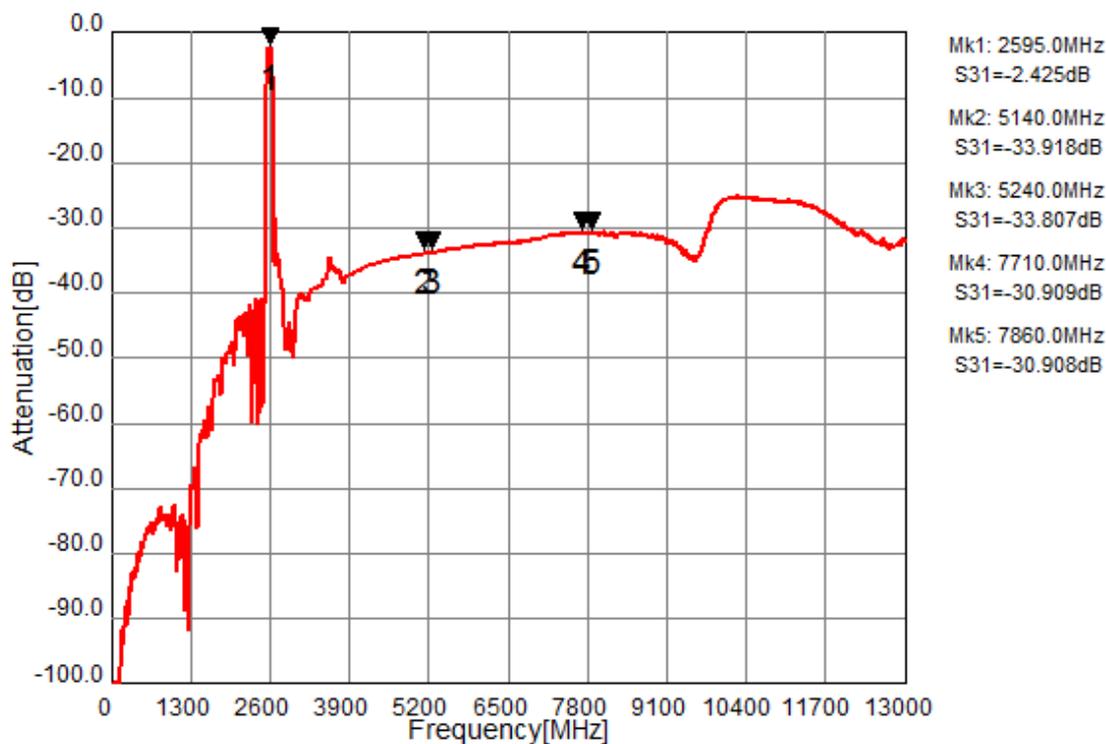


Fig. 4 Wide-band Characteristics (Filter1)



MSL1

*Pb Free part

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System	Band38 /Band40- Rx(50/100ohm)	DATE	Apr.12, 2013
Part Number	G6QE2G595N2EJ	Version 1.0aa	Final

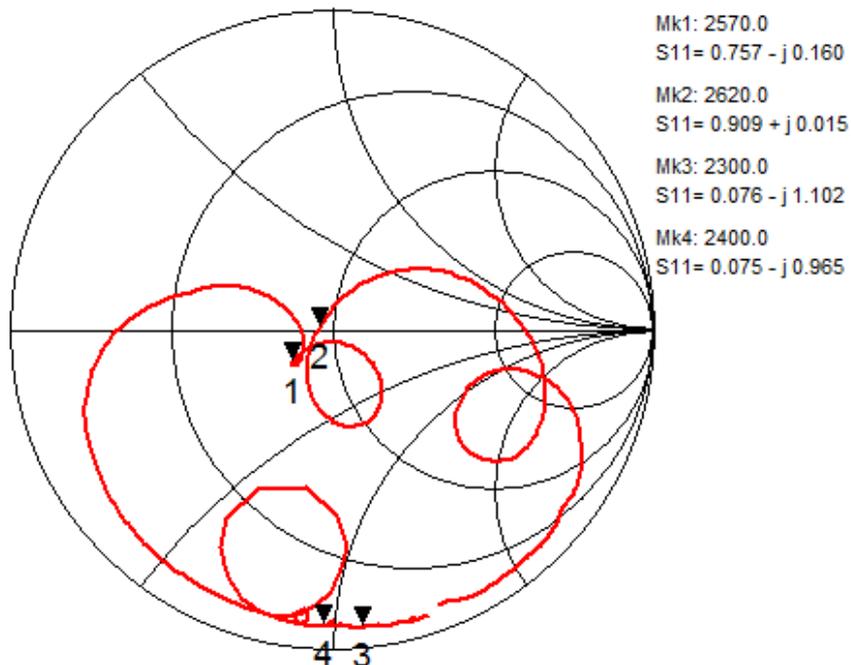


Fig. 5 Input Impedance (Unbalanced) (Filter1)

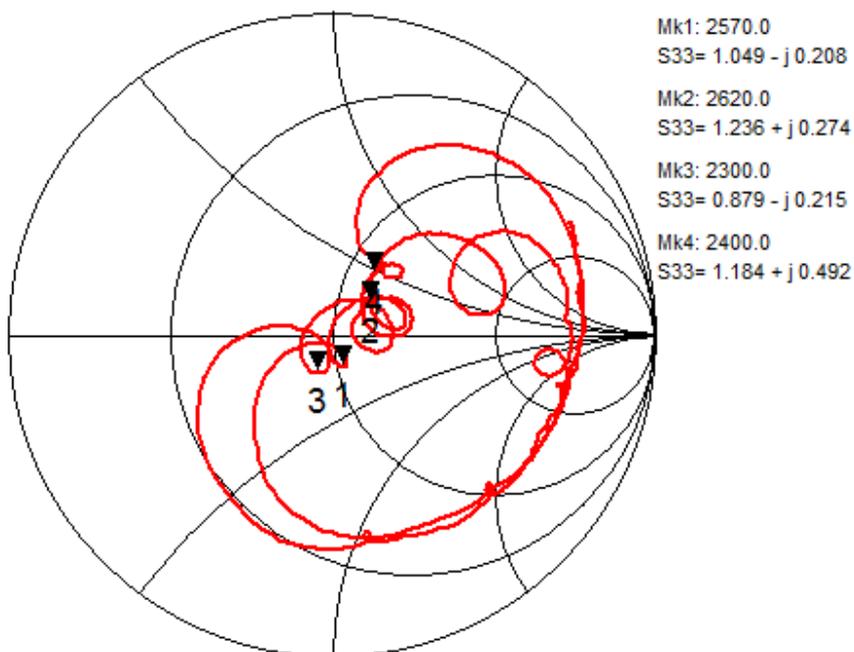


Fig. 6 Output Impedance (Balanced) (Filter1)



MSL1

*Pb Free part

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System	Band38 /Band40- Rx(50/100ohm)	DATE	Apr.12, 2013
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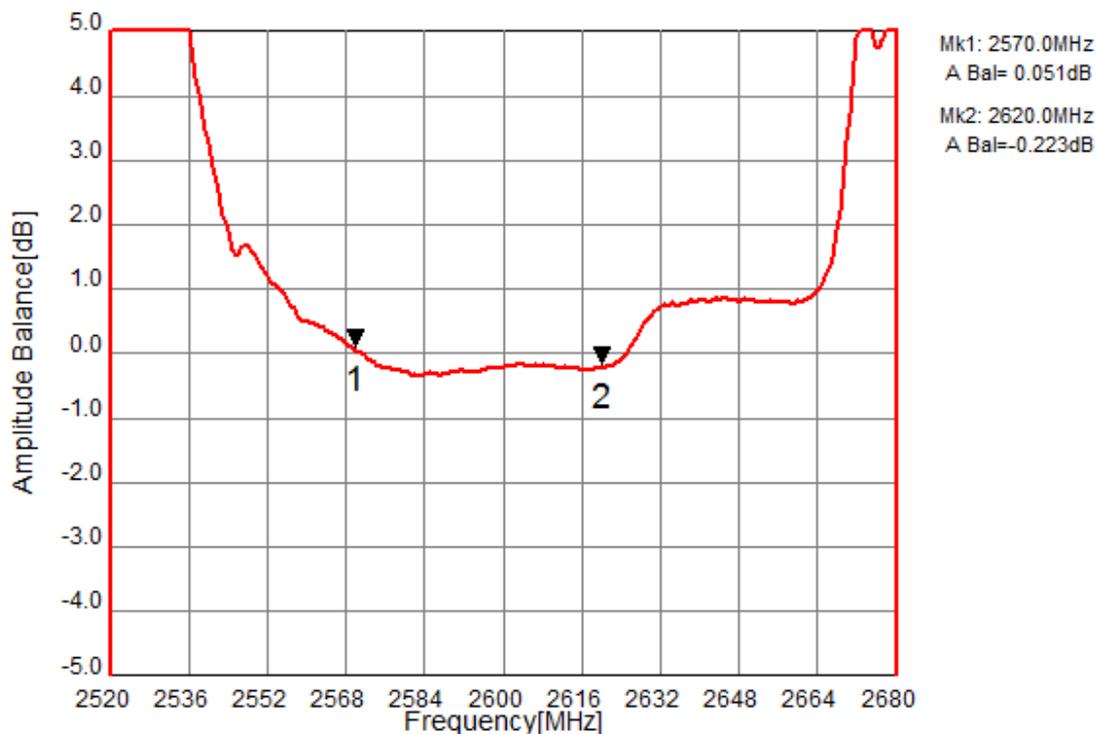


Fig. 7 Amplitude Balanced (Filter1)

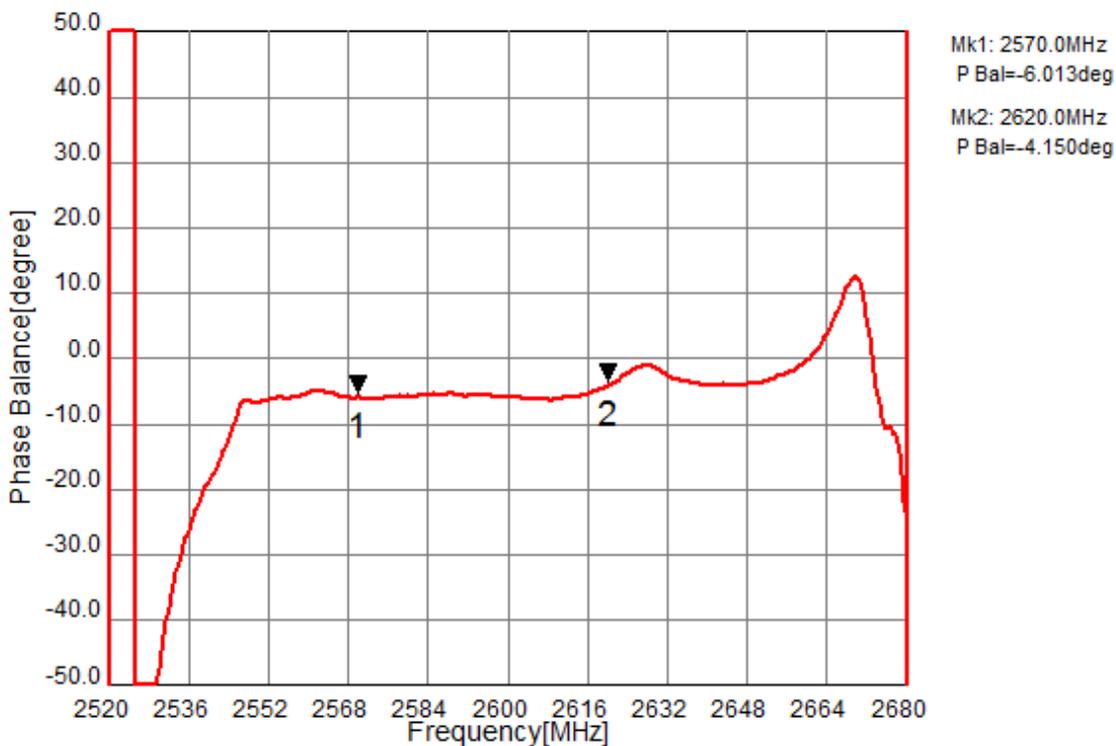


Fig.8 Phase Balanced (Filter1)



MSL1

*Pb Free part

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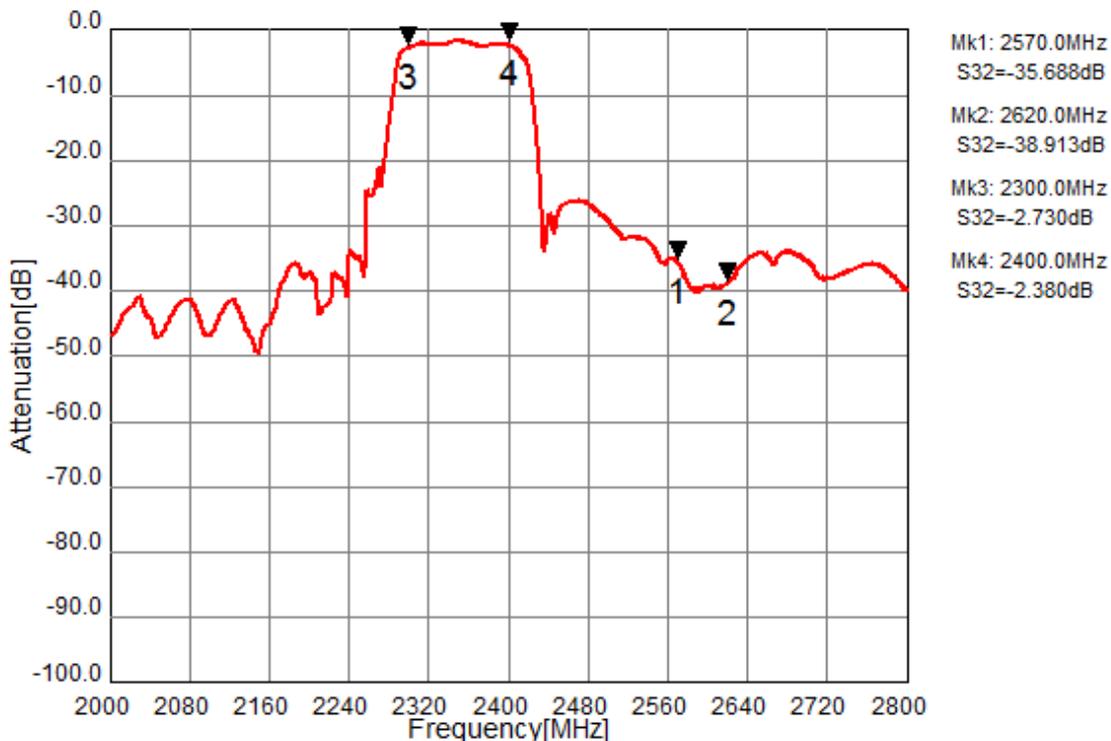


Fig.9 Pass-band Characteristics (Filter2)

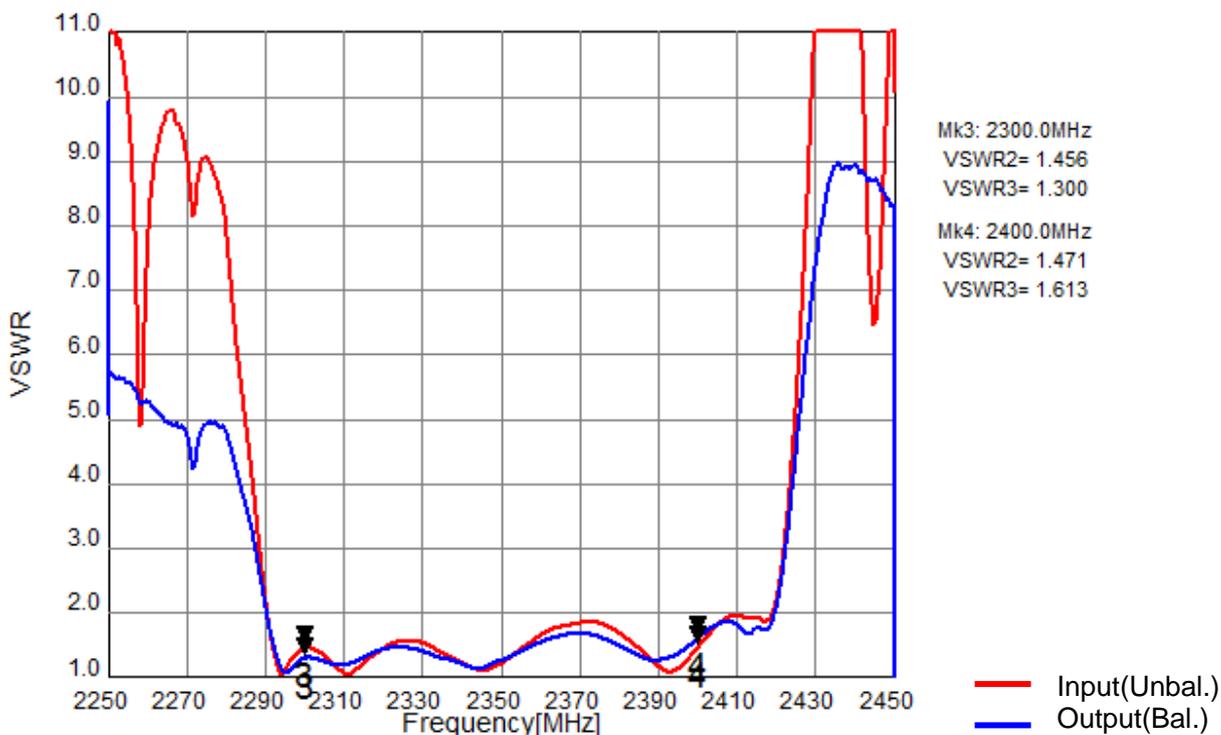


Fig.10 VSWR (Filter2)



MSL1

*Pb Free part

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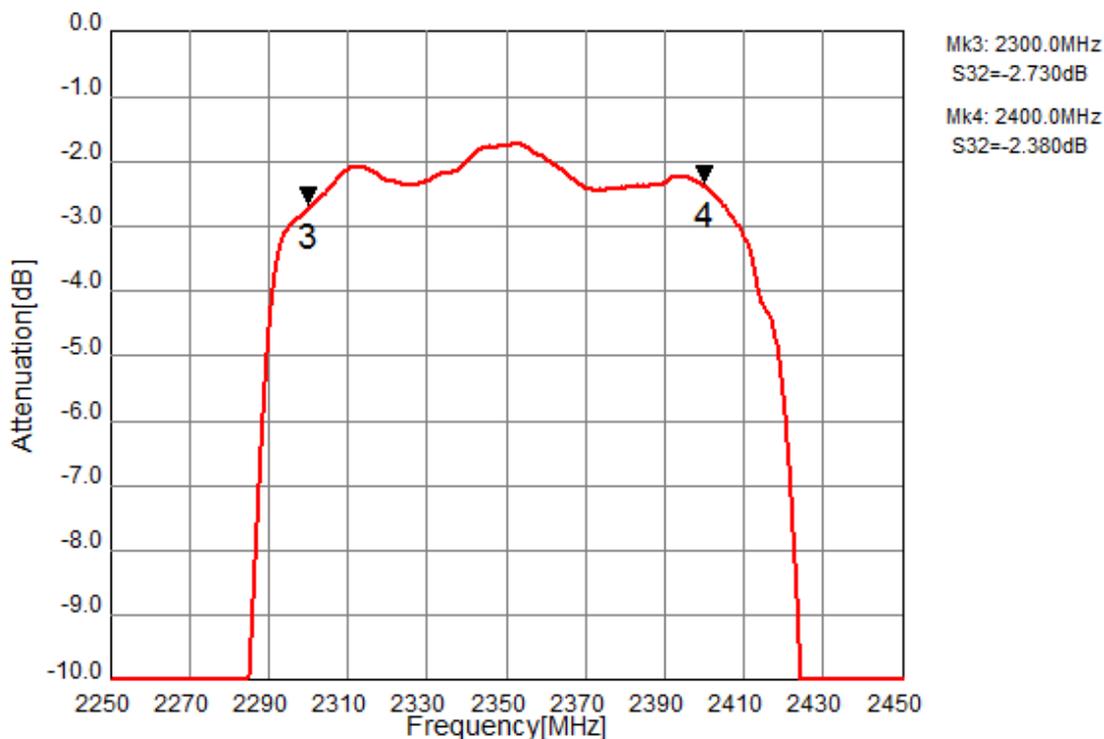


Fig.11 In-band Characteristics (Filter2)

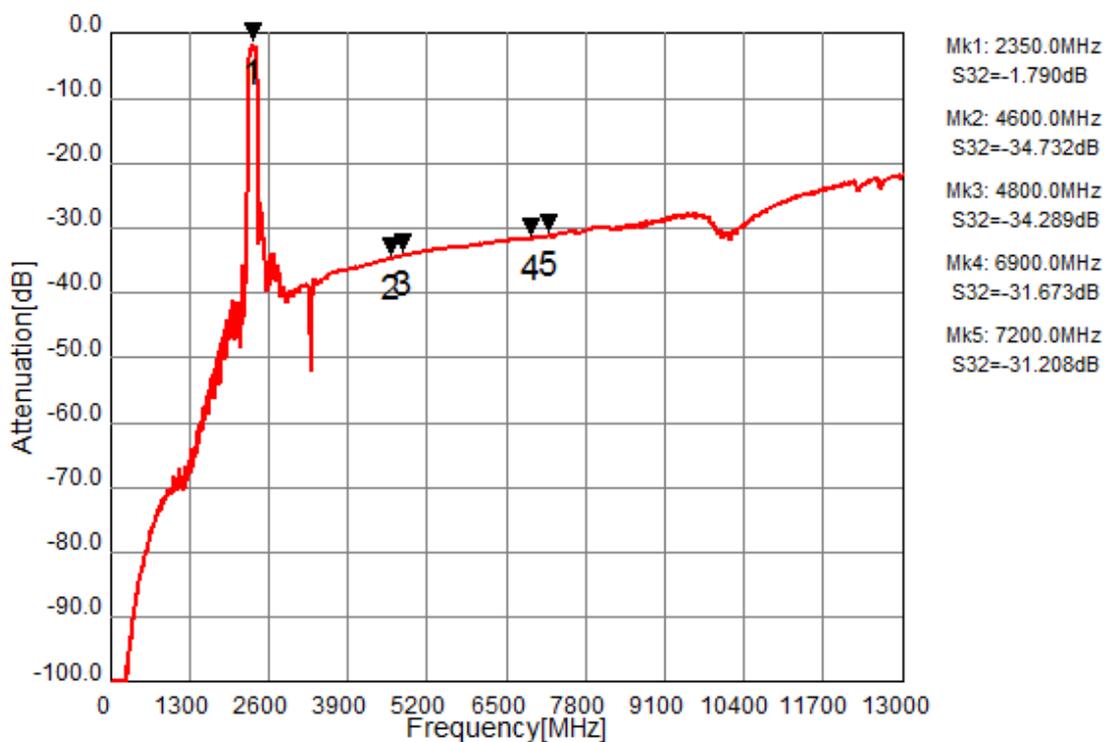


Fig.12 Wide-band Characteristics (Filter2)



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	Band38 /Band40- Rx(50/100ohm)	DATE	Apr.12, 2013
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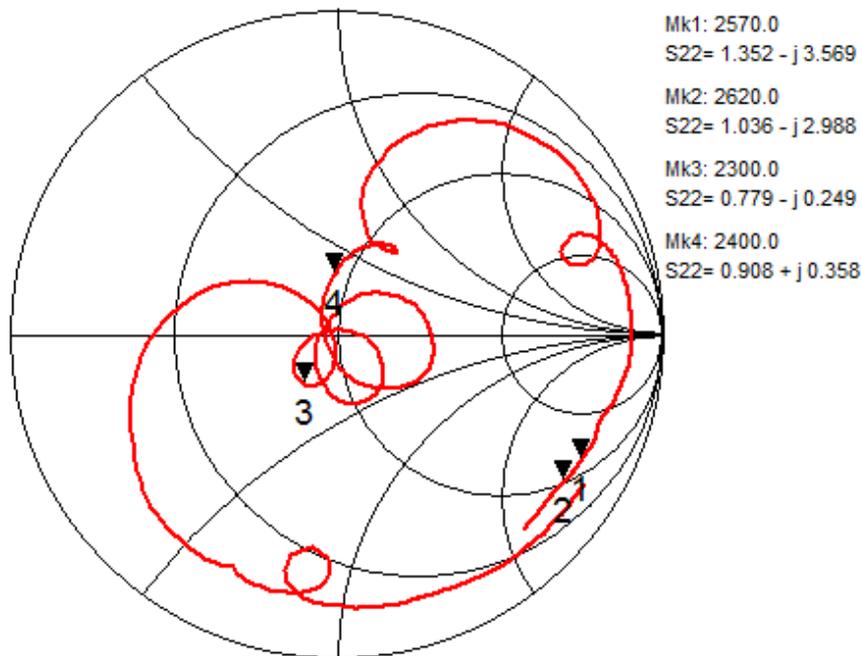


Fig.13 Input Impedance (Unbalanced) (Filter2)

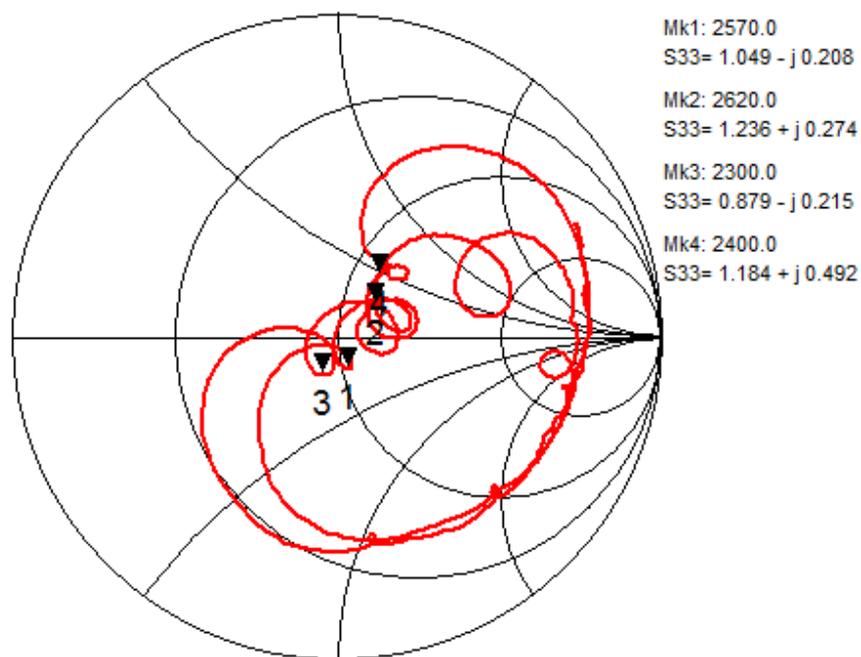


Fig.14 Output Impedance (Balanced) (Filter2)



MSL1

*Pb Free part

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Part Number	G6QE2G595N2EJ	Version 1.0aa	Final

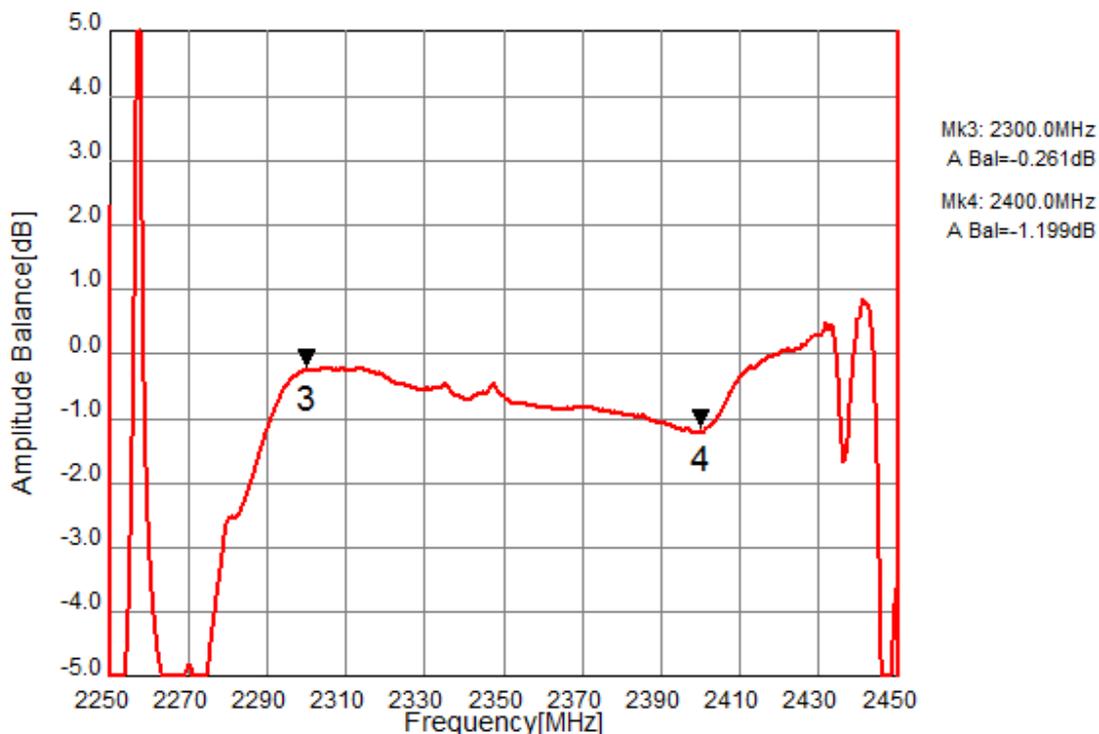


Fig.15 Amplitude Balanced (Filter2)

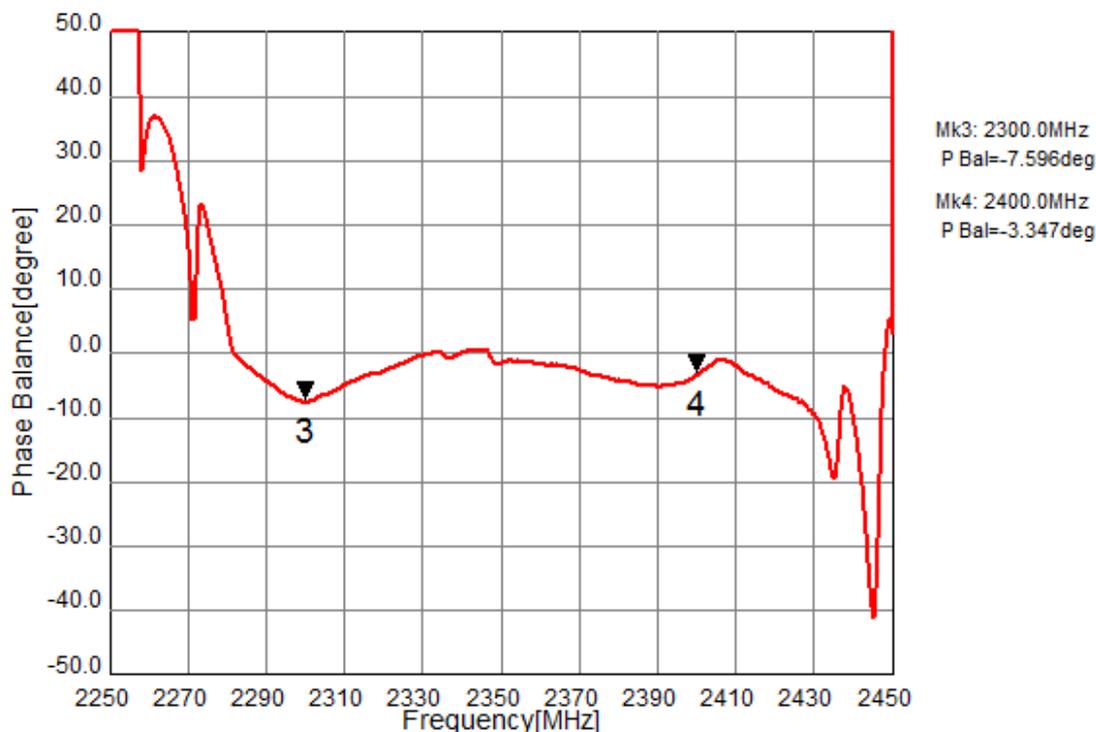


Fig.16 Phase Balanced (Filter2)



MSL1

*Pb Free part

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Part Number	G6QE2G595N2EJ	Version 1.0aa	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
G6QE2G595N2EJ-J	Tape & Reel	5,000 pcs.	MP
G6QE2G595N2EJ-JA	Tape & Reel	less than 5,000 pcs.	MP
G6QE2G595N2EJ-Y	Tape & Reel	15,000 pcs.	MP
G6QE2G595N2EJ-YA	Tape & Reel	less than 15,000 pcs.	MP
G6QE2G595N2EJ-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.