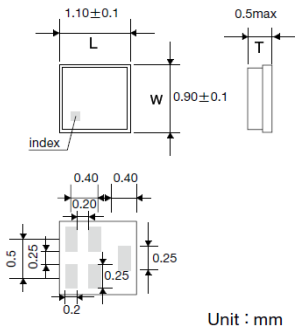


FBAR/SAW Devices (SAW Type)

F6QA1G880M2AQ



■ Features

- Item Summary
SAW, Tx Type, 1.1x0.9x0.5mm
Band 2 / BC 1
- Lifecycle Stage
Mass Production
- Standard packaging quantity (minimum)
Taping Embossed 5000 , 15000pcs

■ Products characteristics table

System	W-CDMA / CDMA
Type	SAW
Function	Tx Type
band	Band 2 / BC 1
Insertion Loss (typ)	1.7 dB
Attenuation (typ)	20 dB
Operating Temp. Range	-30 to +85 °C
RoHS2 Compliance (10 subst.)	Yes
REACH Compliance (163 subst.)	Yes
Soldering	Reflow

■ External Dimensions

Dimension L	1.1 ±0.10 mm
Dimension W	0.9 ±0.10 mm
Dimension T	Max 0.5 mm



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band2 - Tx	DATE	Feb. 14, 2013
Part Number	F6QA1G880M2AQ	Version 1.1a	Final

Table 1. Electrical Specification

Passband : 1850 – 1910 MHz						
Item	Condition (MHz)	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss(*1)	1850 - 1910	-	1.7	2.0	dB	at 25 °C
		-	-	2.8	dB	
Ripple	1850 - 1910	-	0.7	1.1	dB	at 25 °C
		-	-	1.9	dB	
VSWR (Input)	1850 - 1910	-	1.8	2.2	-	
VSWR (Output)	1850 - 1910	-	1.8	2.2	-	
Absolute attenuation	DC - 1570	20	32	-	dB	
	1570 - 1580	20	34	-	dB	
	1930 - 1990	17	20	-	dB	
	1990 - 2400	20	26	-	dB	
	2400 - 3000	20	31	-	dB	
	3000 - 4000	15	30	-	dB	
	4000 - 5550	10	24	-	dB	
	5550 - 5730	10	24	-	dB	
	5730 - 6000	10	23	-	dB	
Input impedance	-	50			Ohms	
Output impedance	-	50 // 10nH			Ohms	
Temperature range	-	-30 to +85			°C	
Package size	-	1.1typ x 0.9typ x 0.5max			mm	

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



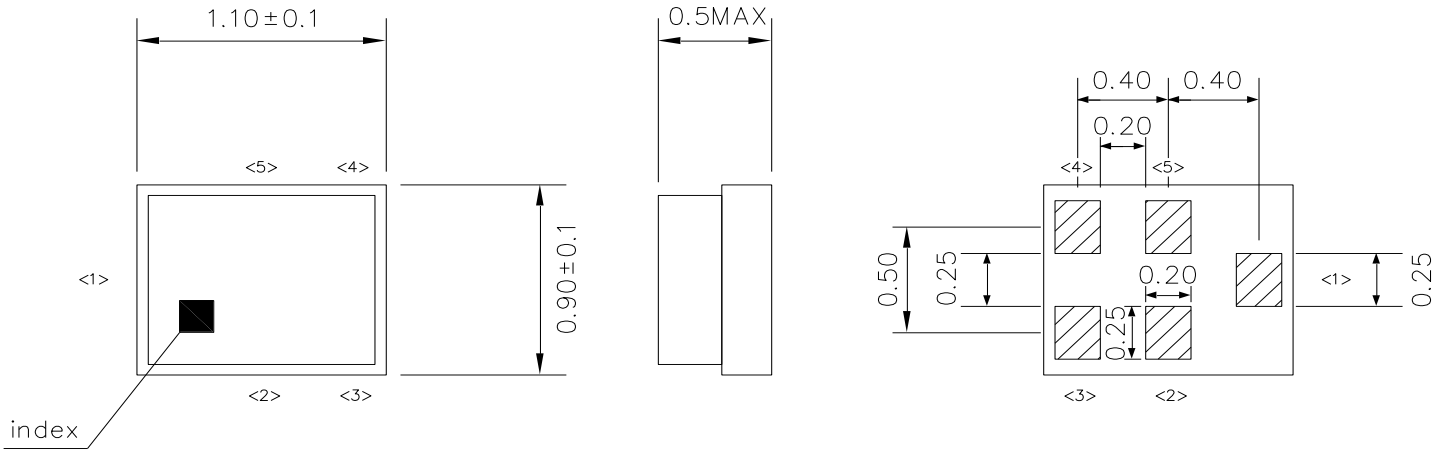
MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band2 - Tx	DATE	Feb. 14, 2013
Part Number	F6QA1G880M2AQ	Version 1.1a	Final

Dimensions

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

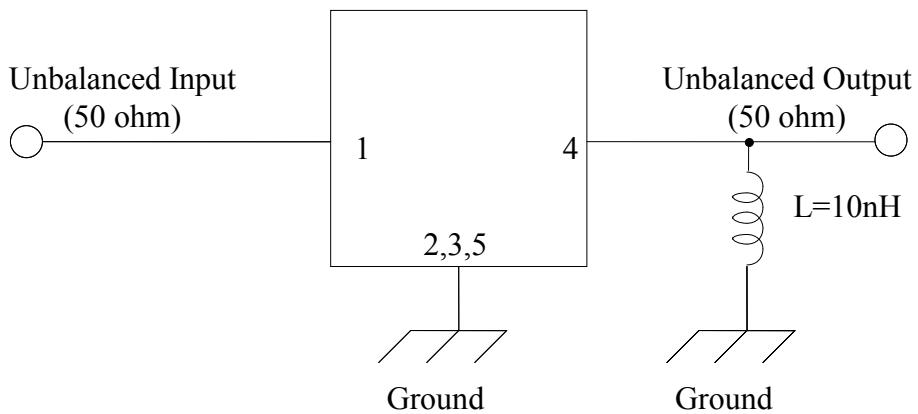


Unit : mm

Pin Configuration

Pin No.	Symbol	Function
1	IN	Unbalanced pin
2	GND	Ground
3	GND	Ground
4	OUT	Unbalanced pin
5	GND	Ground

Evaluation Circuit



1 to 5 ; Pin No.



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
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Part Number	F6QA1G880M2AQ	Version 1.1a	Final

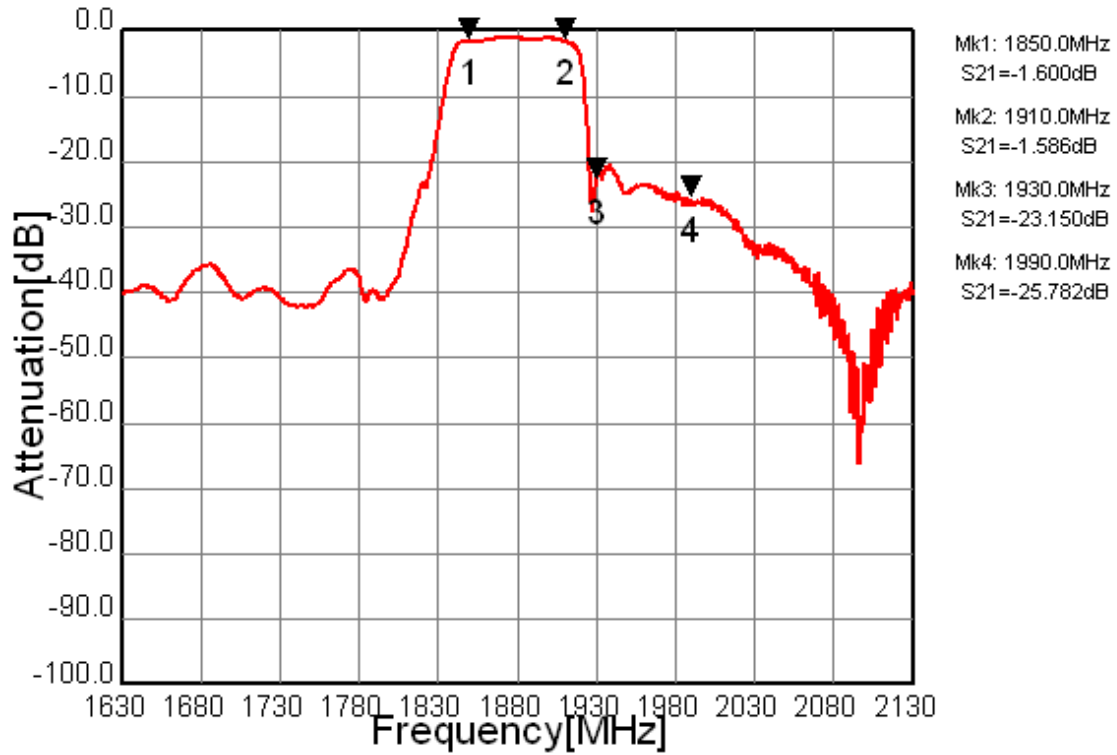


Fig.1 Pass-band Characteristics

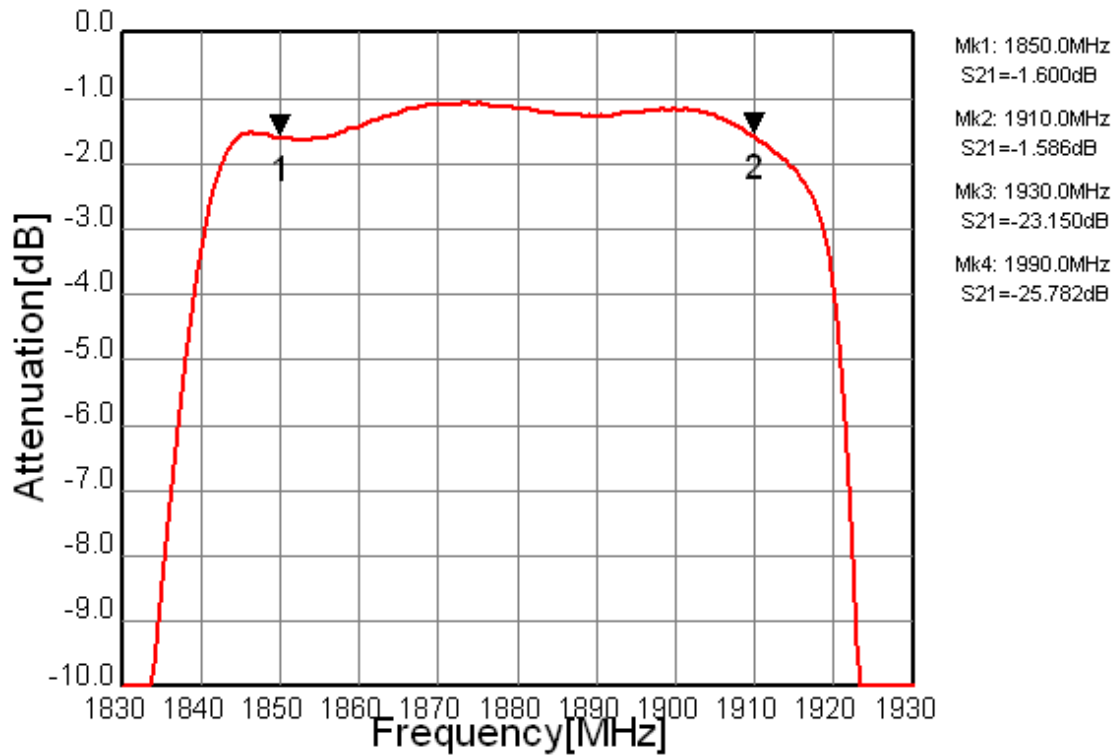


Fig.2 In-band Characteristics



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band2 - Tx	DATE	Feb. 14, 2013
Part Number	F6QA1G880M2AQ	Version 1.1a	Final

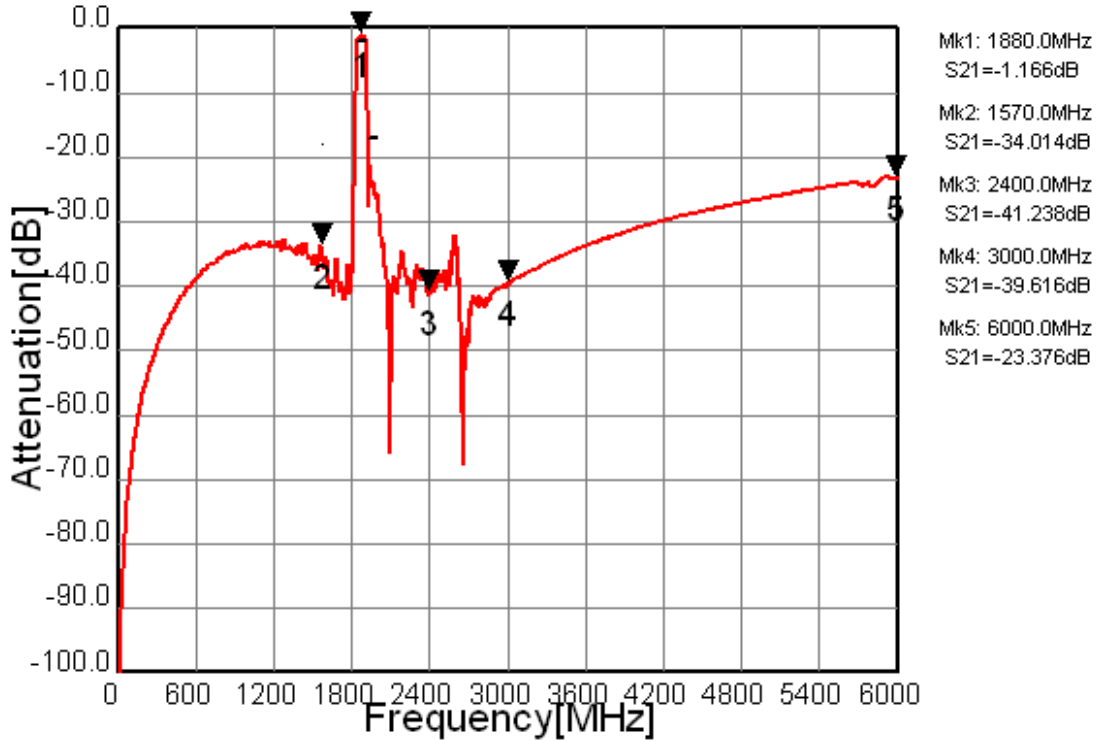


Fig.3 Wide-band Characteristics



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band2 - Tx	DATE	Feb. 14, 2013
Part Number	F6QA1G880M2AQ	Version 1.1a	Final

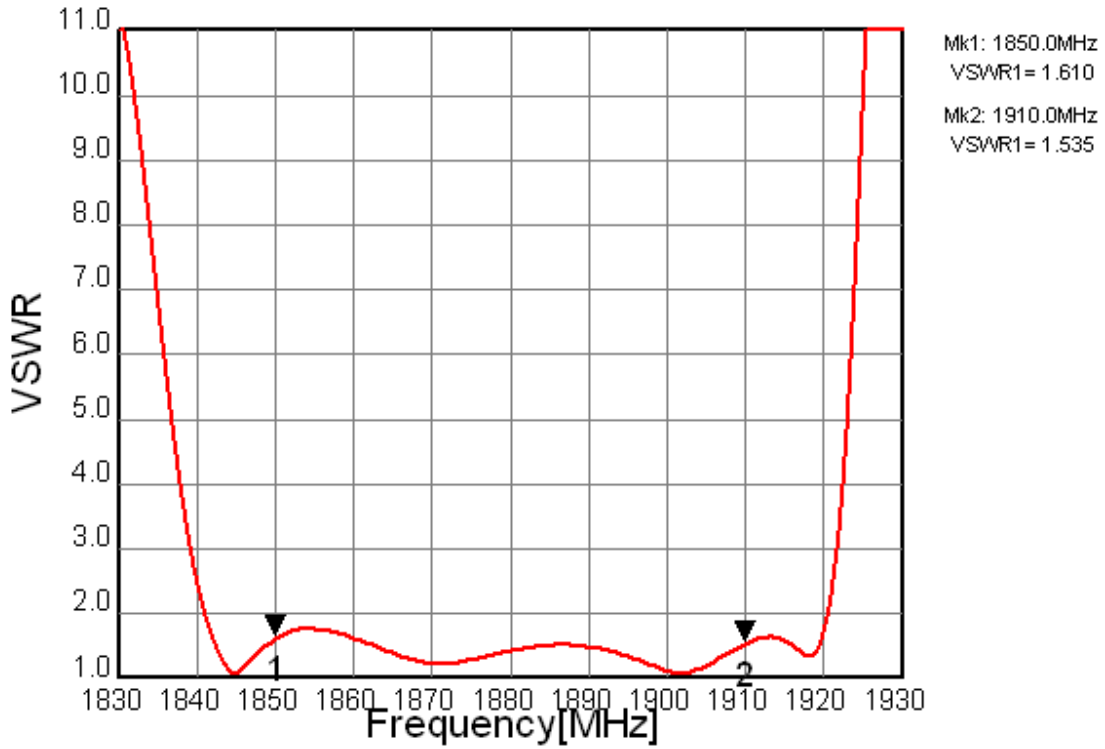


Fig.4 Input VSWR

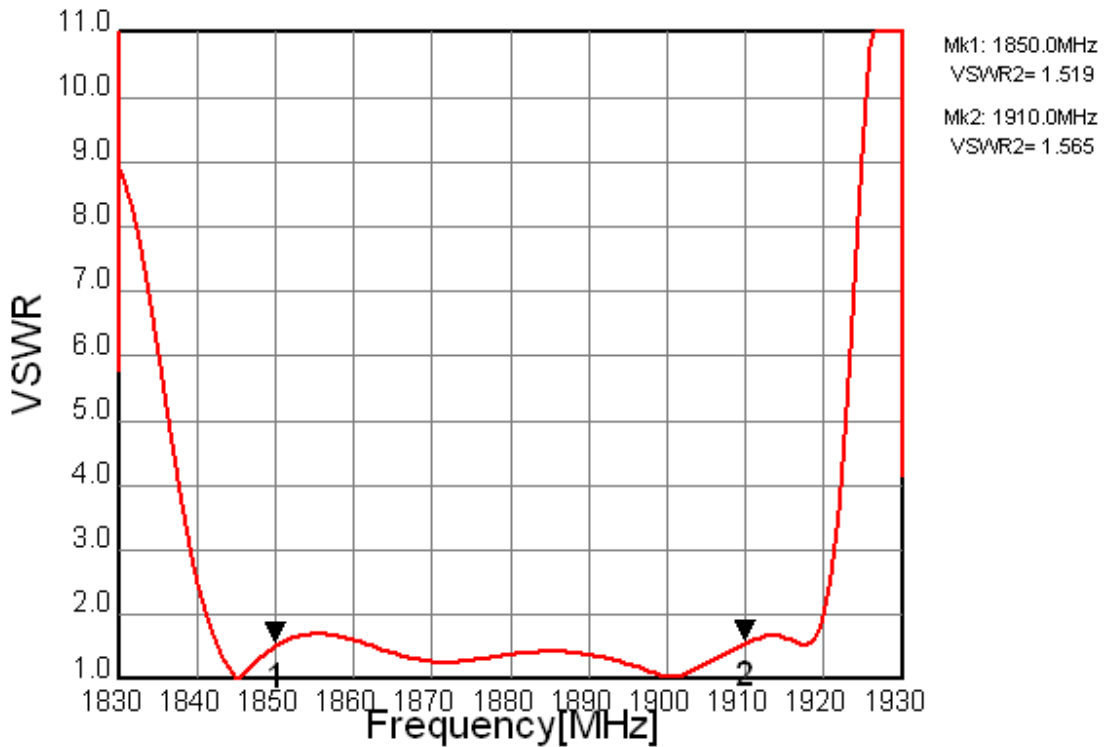


Fig.5 Output VSWR



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band2 - Tx	DATE	Feb. 14, 2013
Part Number	F6QA1G880M2AQ	Version 1.1a	Final

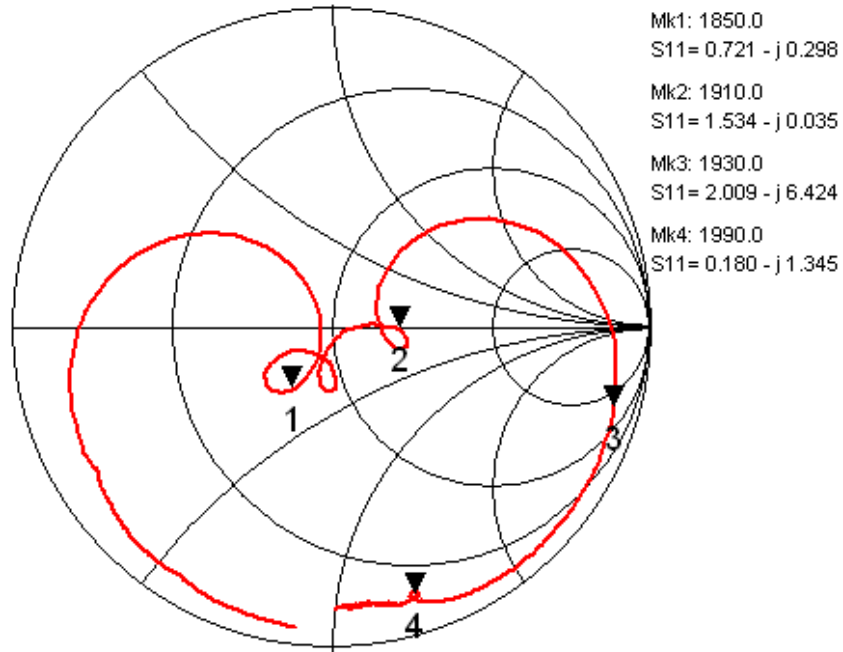


Fig.6 Input Impedance

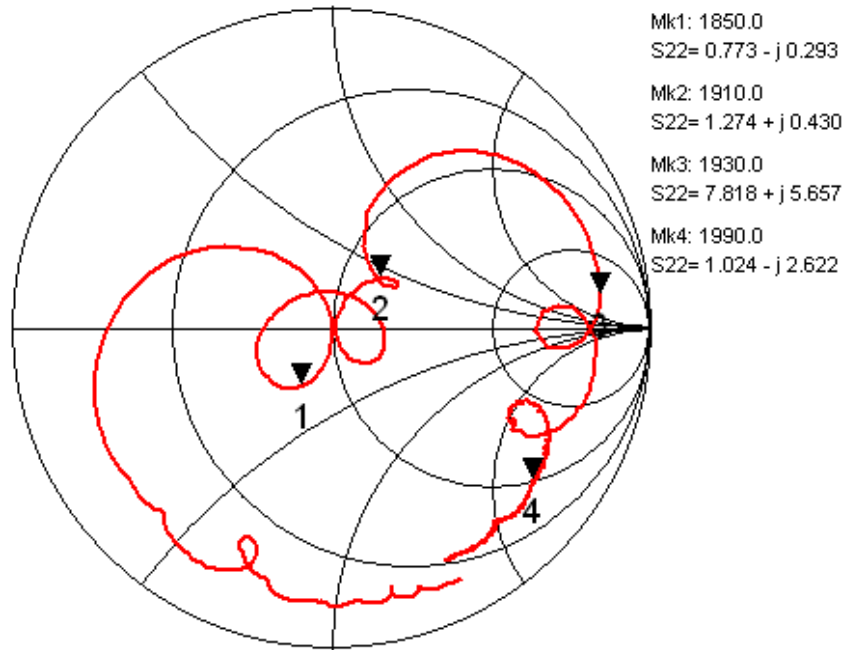


Fig.7 Output Impedance



MSL1

*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band2 - Tx	DATE	Feb. 14, 2013
Part Number	F6QA1G880M2AQ	Version 1.1a	Final

Ordering Code

Ordering Code	Packing	Reel size	Status
F6QA1G880M2AQ-J	Tape & Reel	5,000pcs.	MP
F6QA1G880M2AQ-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QA1G880M2AQ-Y	Tape & Reel	15,000pcs	MP
F6QA1G880M2AQ-YA	Tape & Reel	less than 15,000 pcs.	MP
F6QA1G880M2AQ-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.