



MSL1

\*Pb Free part

Customer Name	Standard Specification	TAIYO YUDEN Mobile Technology Co., Ltd.	
System	Band 3 - Tx	DATE	July 29, 2013
Part Number	F6QA1G747M2QS	Version 1.0a	Final

Table 1. Electrical Specification						
Item	Condition (MHz)	Proposal Specification			Unit	Remarks
		Min.	Typ.	Max.		
Insertion Loss(*1)	1710 - 1785	-	2.1	2.4	dB	at 25 °C
		-	-	3.0	dB	
Ripple	1710 - 1785	-	1.0	1.5	dB	at 25 °C
		-	-	2.0	dB	
VSWR (Input)	1710 - 1785	-	1.8	2.2	-	
VSWR (Output)	1710 - 1785	-	1.8	2.2	-	
Absolute attenuation	DC - 1570	25	36	-	dB	
	1570 - 1580	35	41	-	dB	
	1805 - 1880	15	22	-	dB	at 25 °C
		10	-	-	dB	
	1930 - 2400	25	34	-	dB	
	2400 - 3000	15	32	-	dB	
	3000 - 4000	10	27	-	dB	
4000 - 6000	5	21	-	dB		
Input impedance	-	50 // 7.5nH			Ohms	
Output impedance	-	50 // 6.8nH			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)



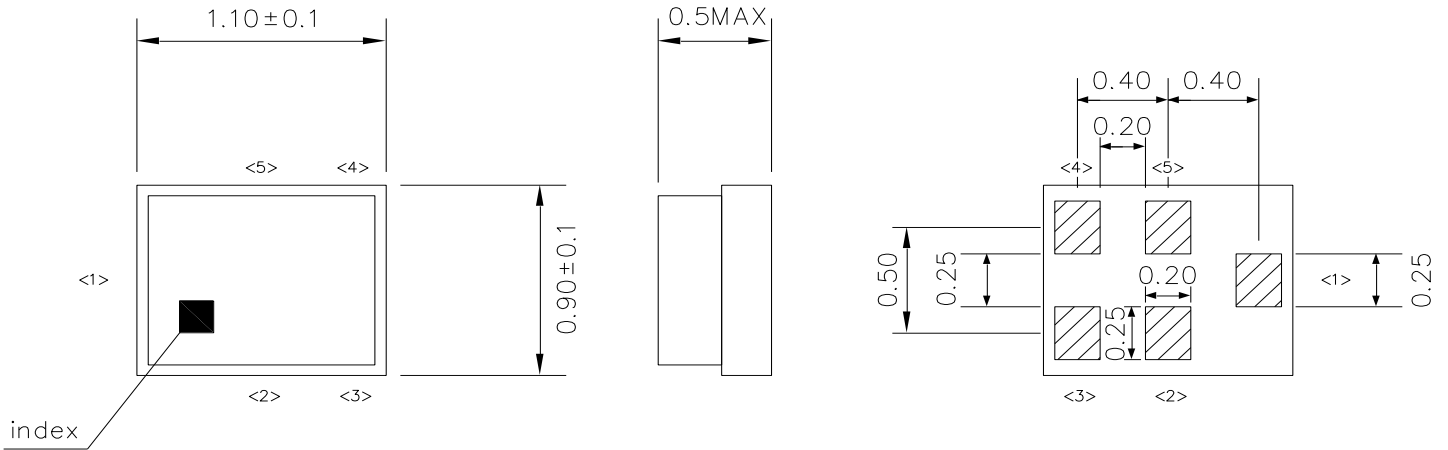
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**Dimensions**

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

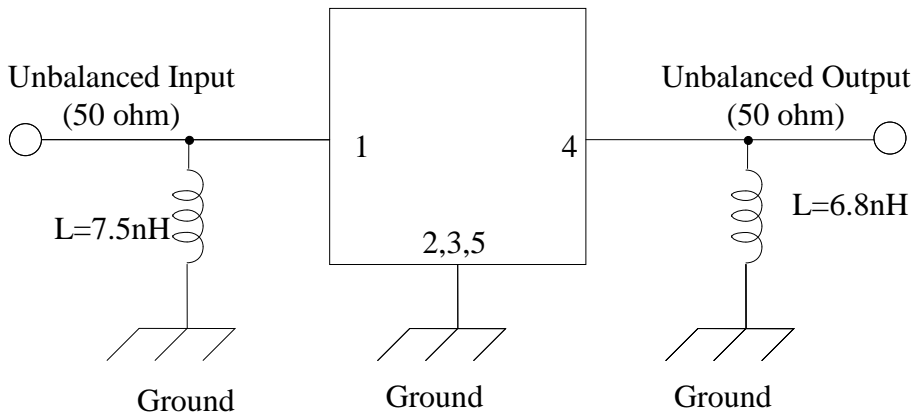


Unit : mm

**Pin Configuration**

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

**Evaluation Circuit**



1 to 5 ; Pin No.



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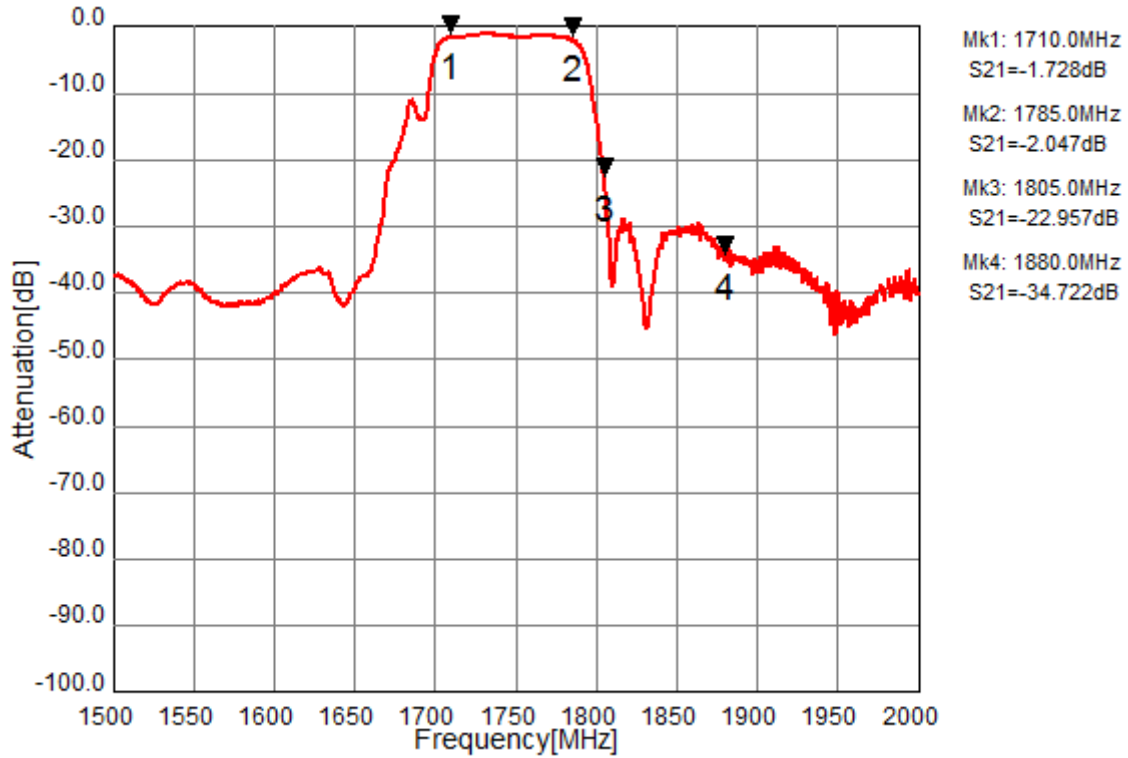


Fig.1 Pass-band Characteristics

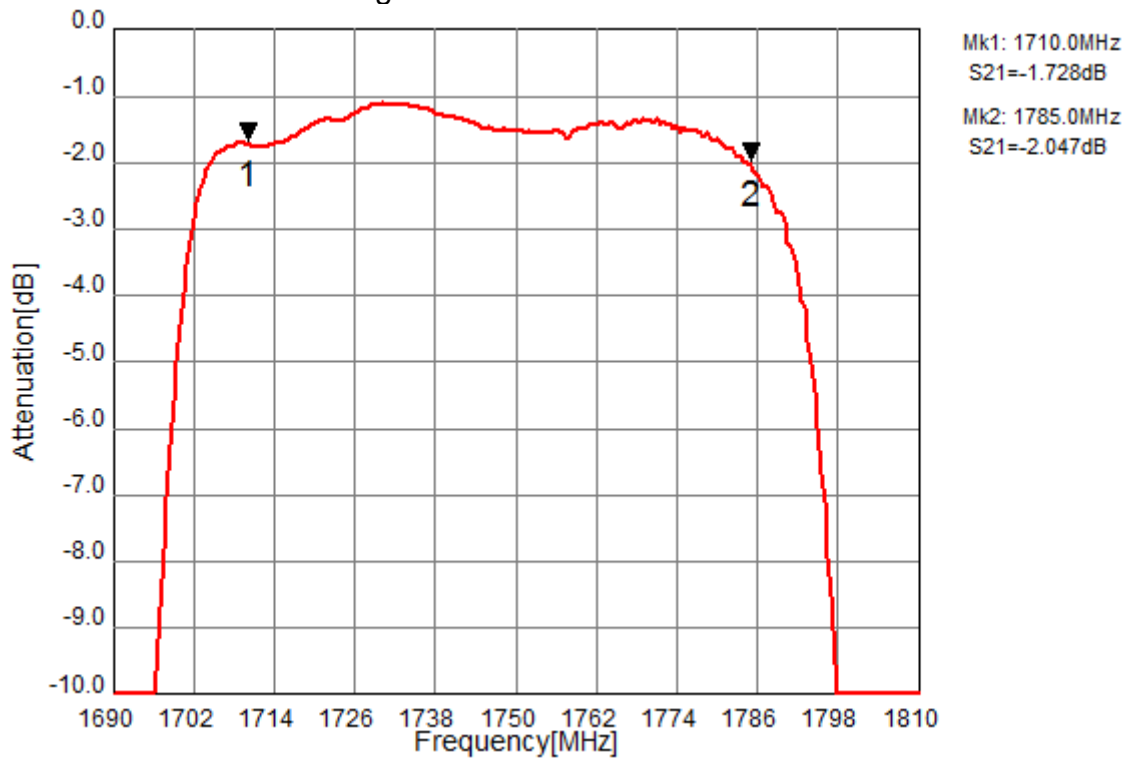


Fig.2 In-band Characteristics



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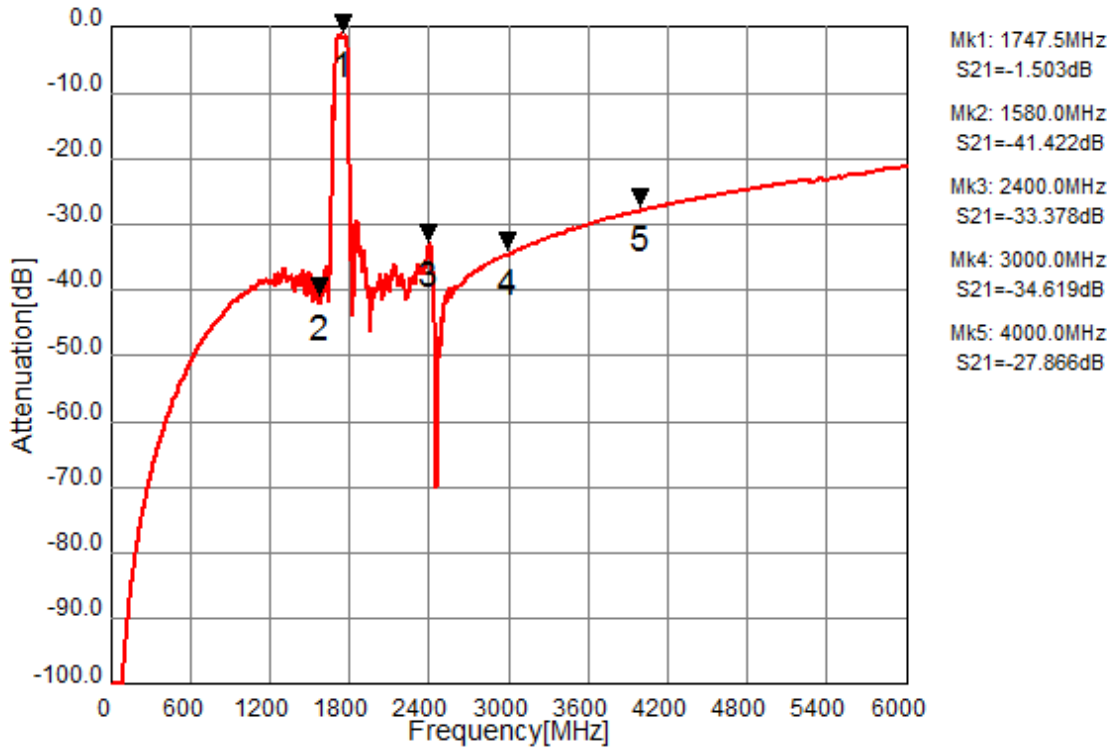


Fig.3 Wide-band Characteristics



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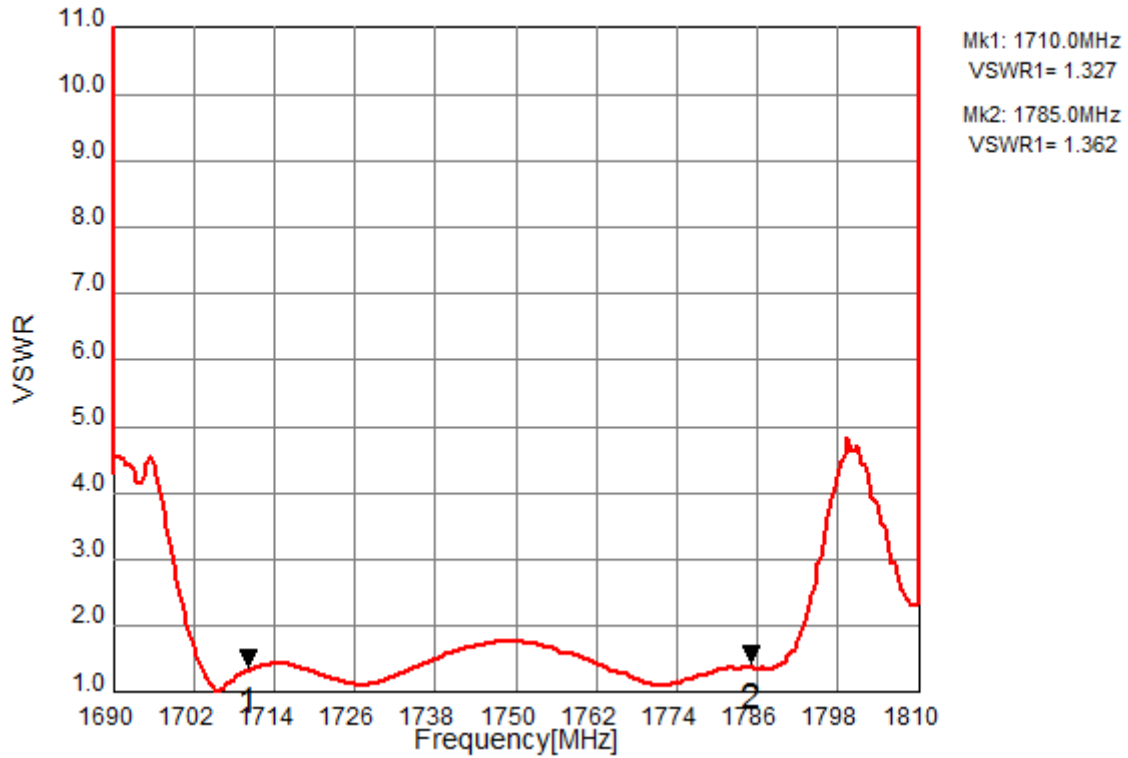


Fig.4 Input VSWR

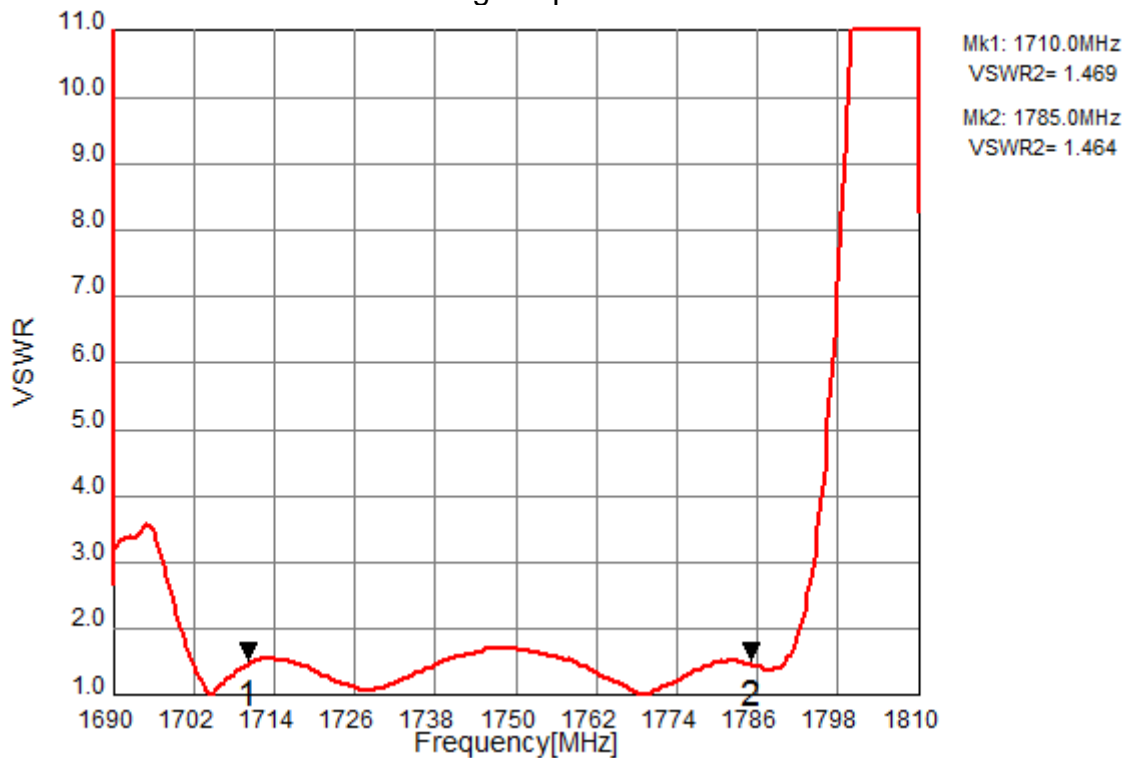


Fig.5 Output VSWR



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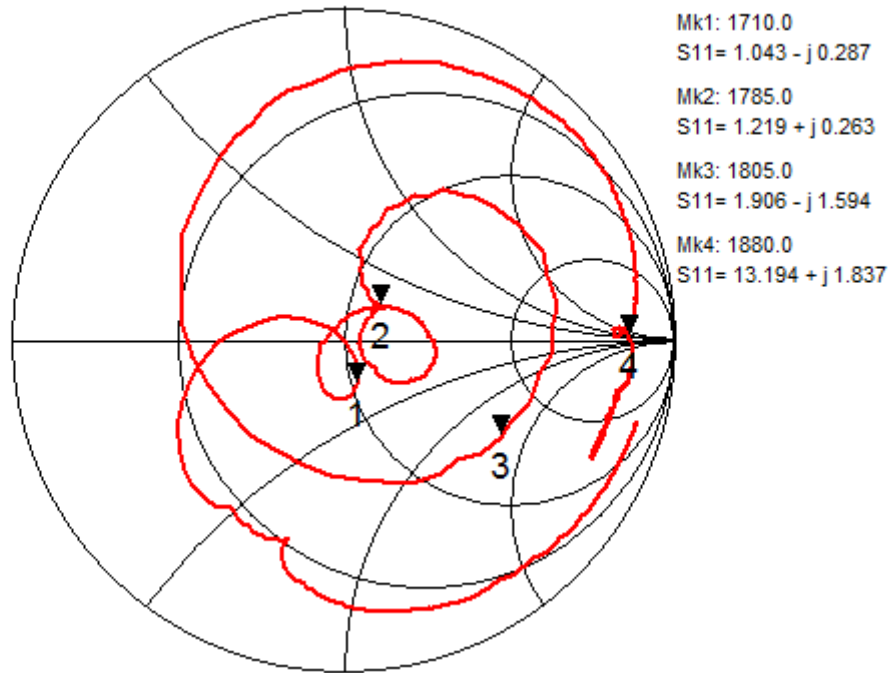


Fig.6 Input Impedance

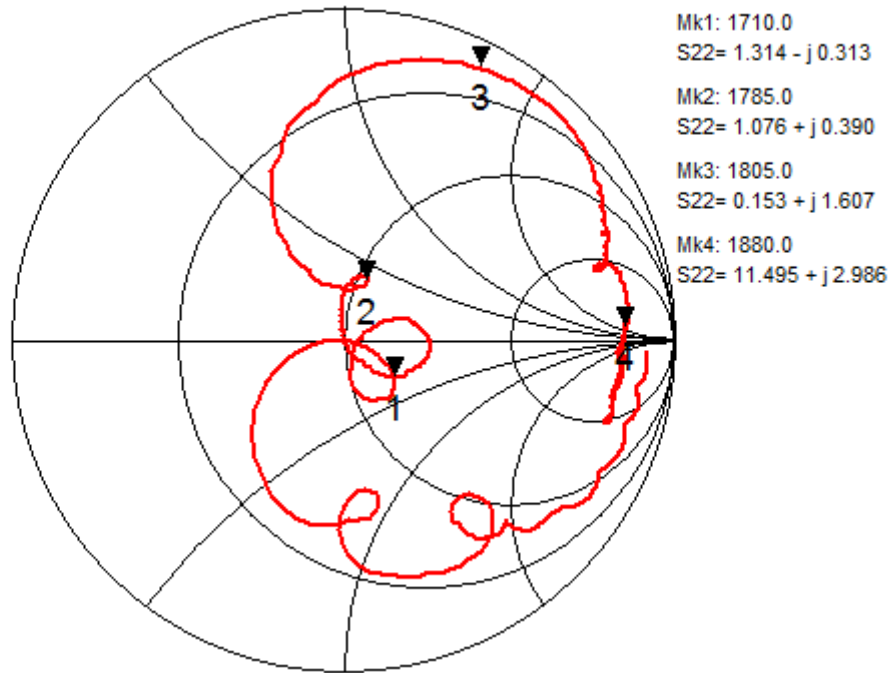


Fig.7 Output Impedance



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## Ordering Code

Ordering Code	Packing	Reel size	Status
F6QA1G747M2QS-J	Tape & Reel	5,000pcs.	MP
F6QA1G747M2QS-JA	Tape & Reel	less than 5,000 pcs.	MP
F6QA1G747M2QS-Y	Tape & Reel	15,000pcs	MP
F6QA1G747M2QS-YA	Tape & Reel	less than 15,000pcs	MP
F6QA1G747M2QS-Q	Bulk	few pcs.	MP

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

\*MP : Engineering Sample

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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.

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