



MSL1

\* Pb Free Part

Customer Name	<b>Standard specification</b>	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	J-CDMA (2G/B.W.20MHz) Rx	Date	March 31, 2010
Part Number	FAR-F6KB-2G1200-B4GQ	Version 2.1b	

**Table 1 Electrical Specification**

Parameter	Condition /MHz	Specification			Unit	Remarks
		Min.	Typ.	Max.		
Maximum Insertion attenuation	2110 - 2130	-	1.4	2.0	dB	
Amplitude ripple (p-p)	2110 - 2130	-	0.2	1.0	dB	
Input VSWR	2110 - 2130	-	1.4	2.0	-	
Output VSWR	2110 - 2130	-	1.4	2.0	-	
Output amplitude balance ( S <sub>21</sub> /S <sub>31</sub>  )	2110 - 2130	-1.2	-0.1/+0.3	+1.2	dB	
Output phase balance (( $\Phi$ S <sub>21</sub> - $\Phi$ S <sub>31</sub> )+180)	2110 - 2130	-10	+2.7/+3.6	+10	deg	
Attenuation	DC- 925	40	62	-	dB	
	1730-1750	30	40	-	dB	
	1920-1940	40	48	-	dB	
	3650-3690	35	50	-	dB	
	4030-4070	35	50	-	dB	
	4220-4260	35	50	-	dB	
	4260-6000	25	47	-	dB	
Operating temperature range		-30 ~ +85			°C	
Input Impedance (Unbalanced)		50			Ohm	
Output Impedance (Balanced)		100//10nH			Ohm	

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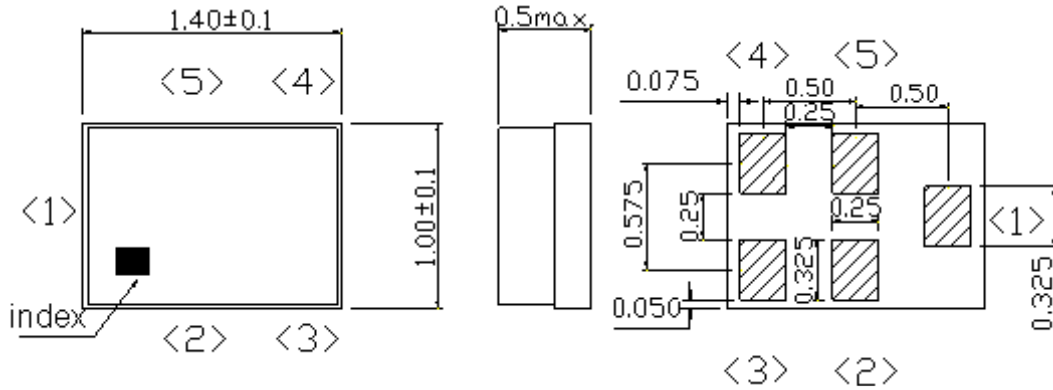
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### Dimensions

Device size: 1.4mmtyp. x 1.0mmtyp. x 0.5mmmax.

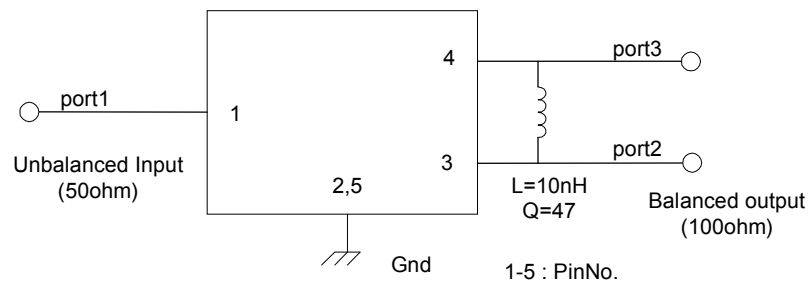


Unit : mm

### Pin Configuration

Pin No.	Pin name	Description
1	IN	Unbalanced pin
2	GND	Ground
3	OUT	Balanced pin
4	OUT	Balanced pin
5	GND	Ground

### Evaluation Circuit



1-5 : PinNo.

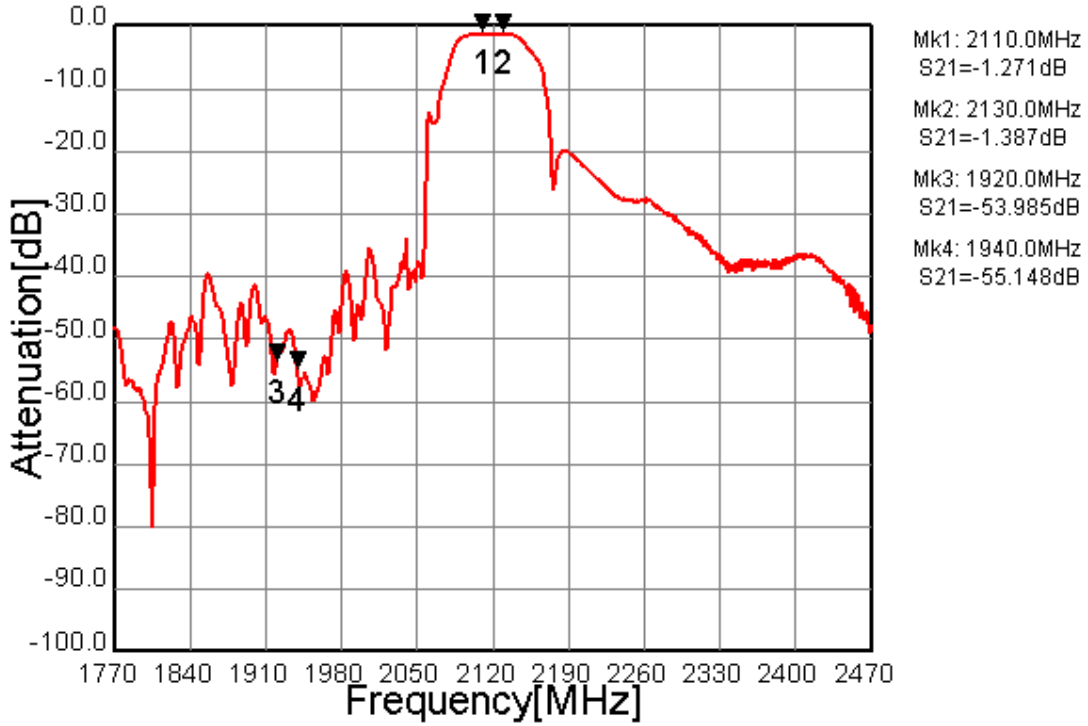
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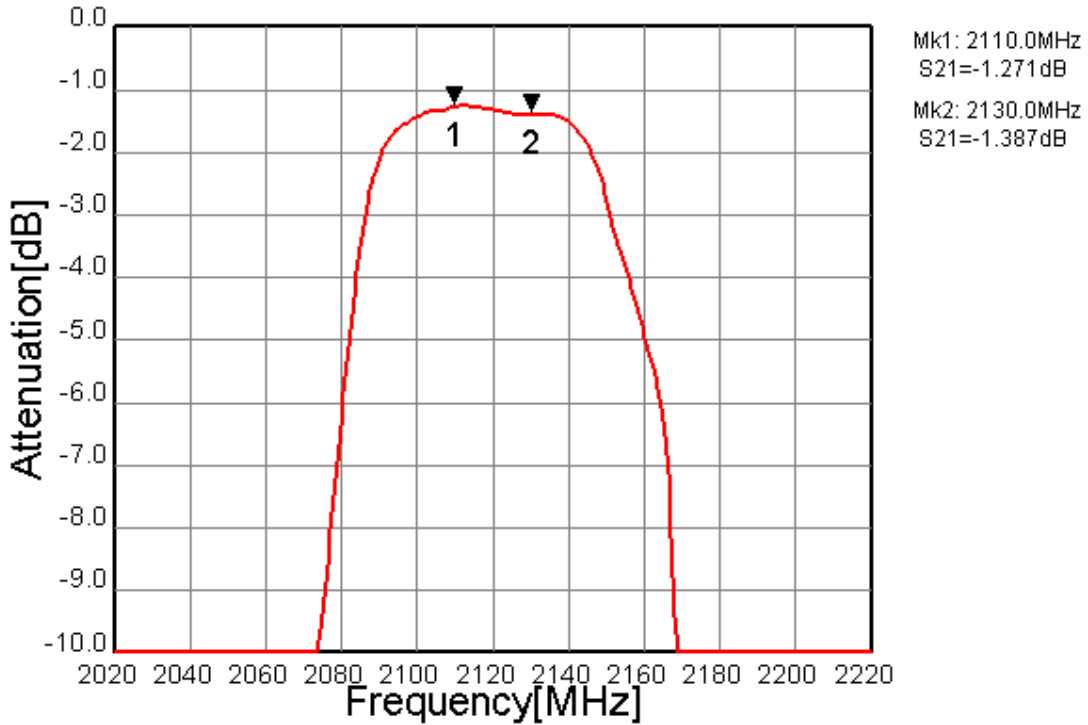
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**Fig.1 Pass-band Characteristics**



**Fig.2 In-band Characteristics**

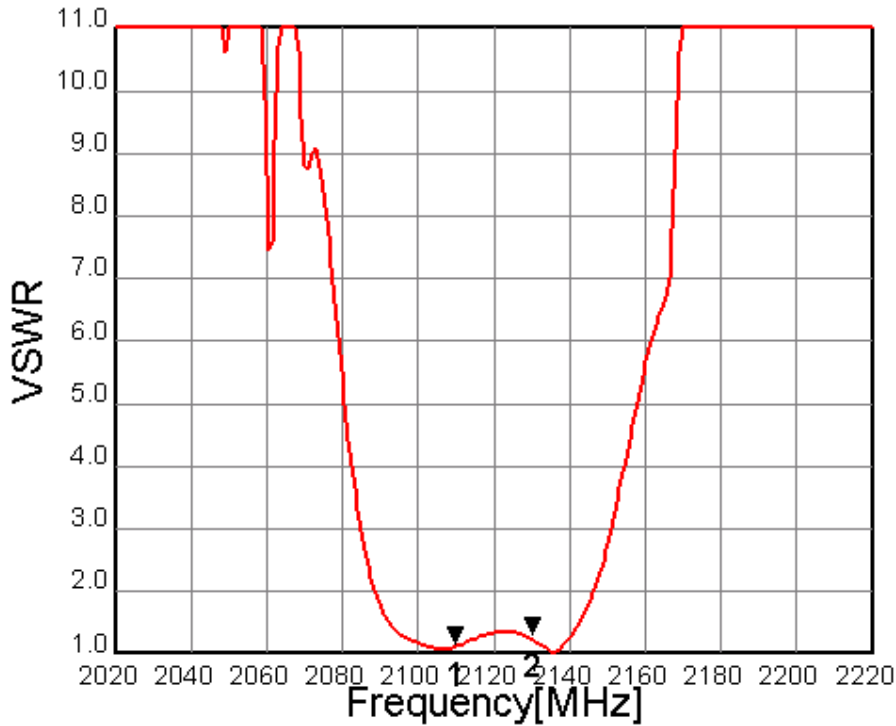
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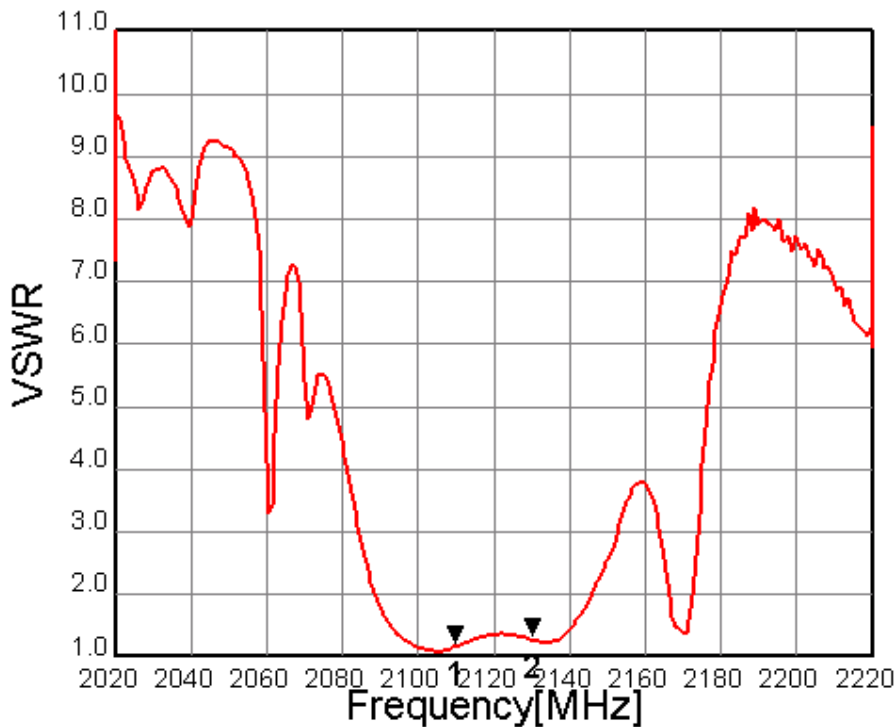
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**Fig.3 VSWR (unbal)**



**Fig.4 VSWR (bal)**

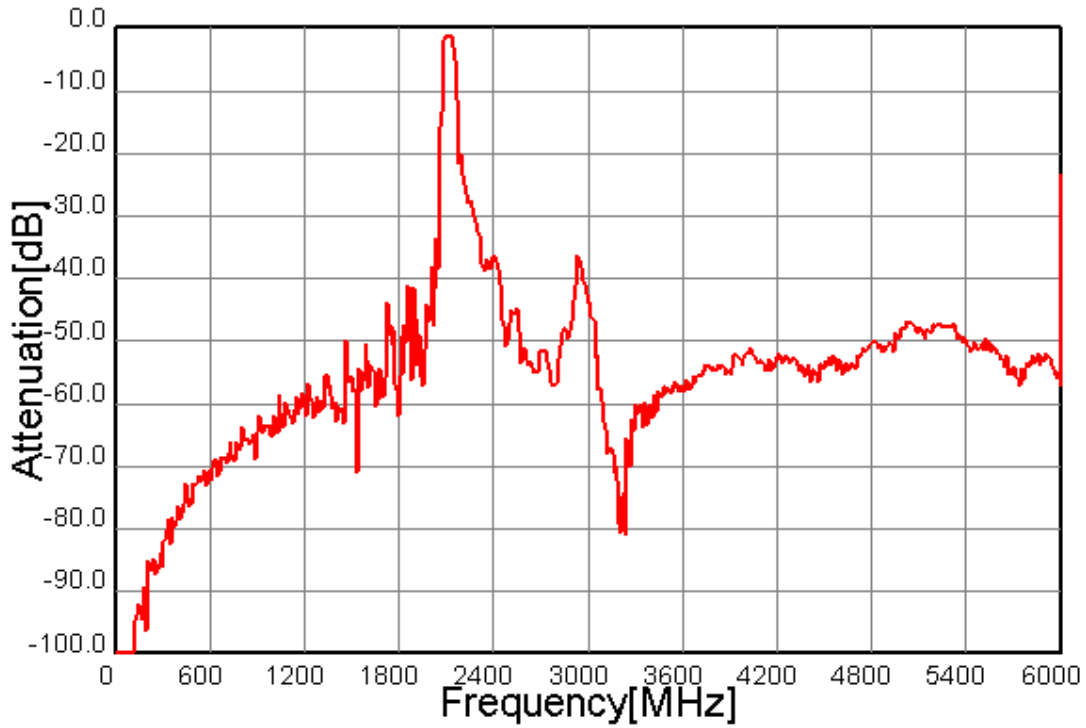
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**Fig.5 Wide-band Characteristics**

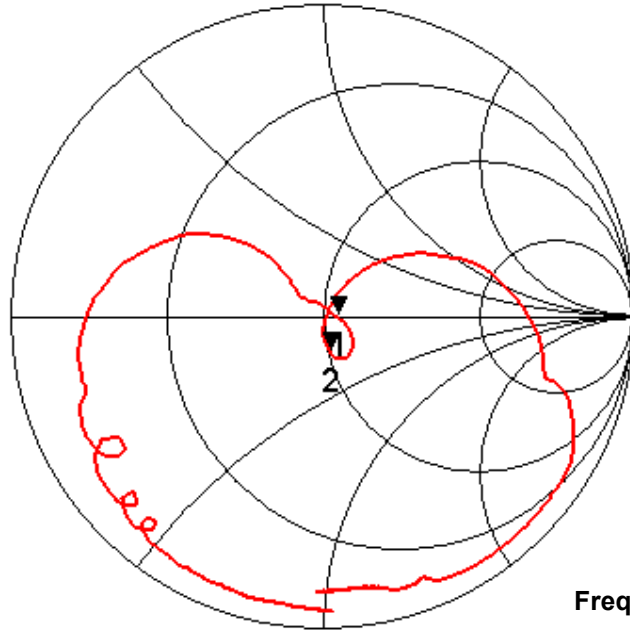
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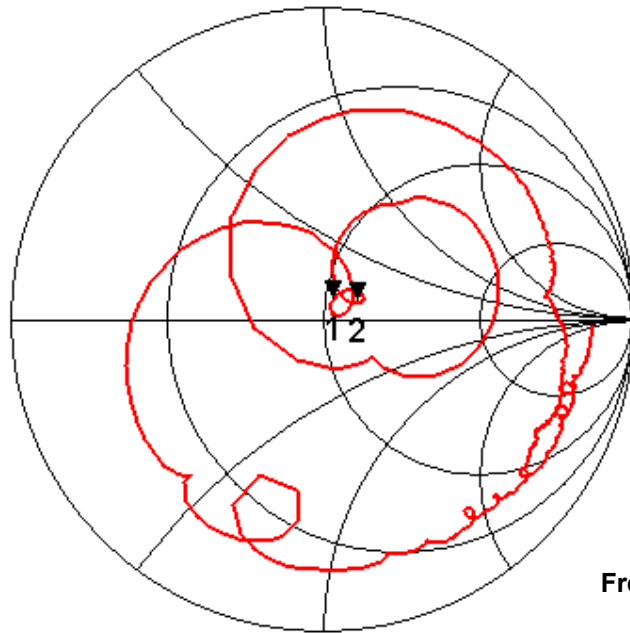
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Mk1: 2110.0  
 $S_{11} = 1.103 + j 0.003$   
 Mk2: 2130.0  
 $S_{11} = 1.023 - j 0.238$

Frequency 1770-2470MHz

**Fig.6 Impedance (unbal)**



Mk1: 2110.0  
 $S_{22} = 1.057 + j 0.133$   
 Mk2: 2130.0  
 $S_{22} = 1.244 + j 0.139$

Frequency 1770-2470MHz

**Fig.7 Impedance (bal)**

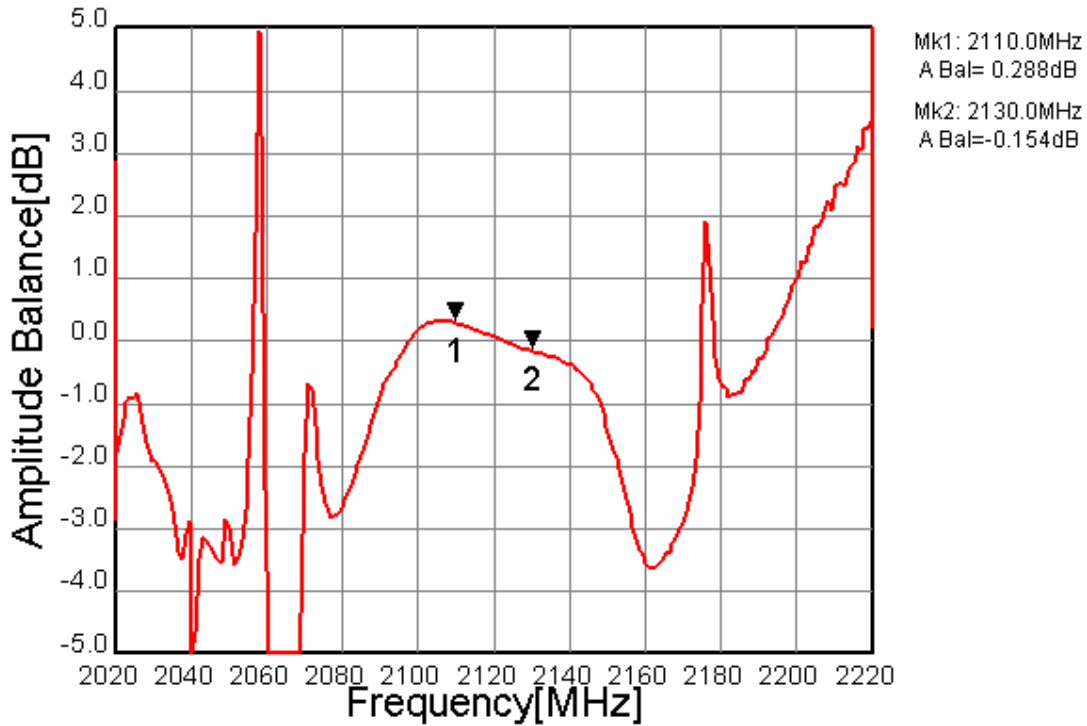
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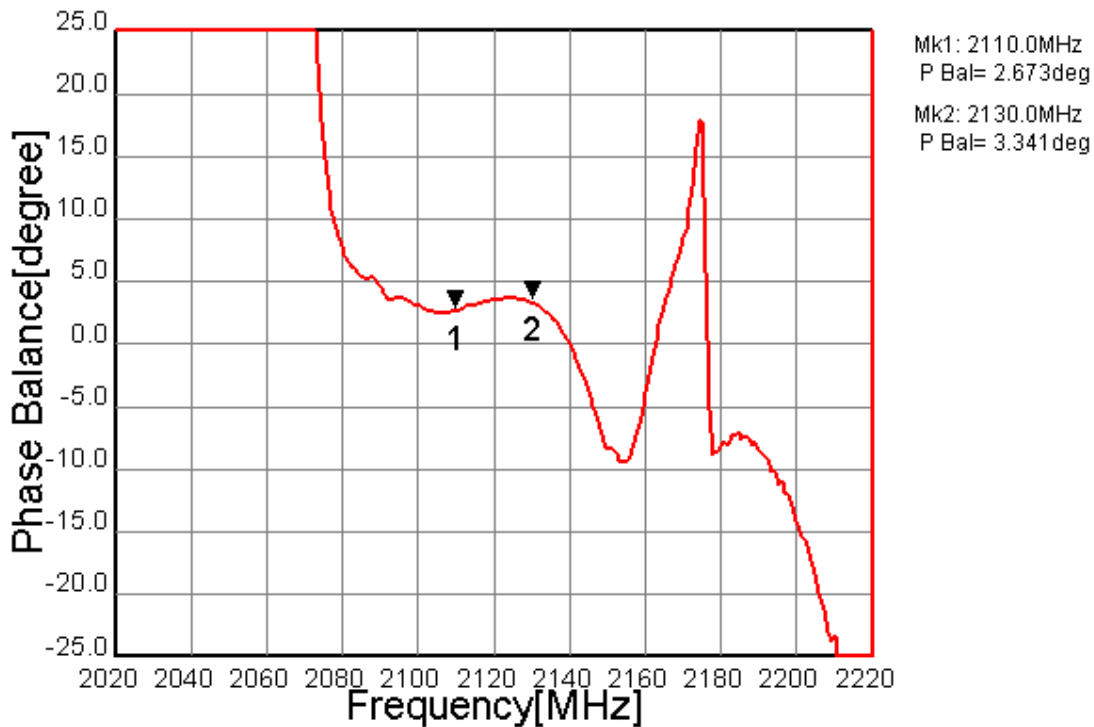
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**Fig.8 Amplitude Balance**



**Fig.9 Phase Balance**

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