Pb-free RoHS MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	***GPS+GLONASS*** (Unbalance 50/50 ohm)	Date	March 31, 2010
Part Number	FAR-F6KA-1G5859-D4MS	Version 2.0b	

Table 1.Electrical specifications

Passband:1565.42 ~ 1605.886 MHz						
Parameter	Frequency	Specification Ver.2.0b			Unit	Remark
		Min.	Typ.	Max.		
Operating temperature		-30	-	+85	°C	
Insertion loss	1574.42-1576.42 MHz	-	1.0	1.4	dB	*1
Insertion loss	1565.42-1585.42 MHz		1.2	1.8	dB	*1
Insertion loss	1597.5515-1605.886 MHz	-	1.2	1.8	dB	*1
VSWR(input/output)	1574.42-1576.42 MHz	-	1.3	2.0	-	
	1565.42-1585.42 MHz		1.5	2.0	-	
	1597.5515-1605.886 MHz	-	1.4	2.0	-	
Absolute Attenuation	10 – 925 MHz	32	35	-	dB	
	925 – 960 MHz	30	35	-	dB	
	1427 – 1463 MHz	35	44	-	dB	
	1710 – 1785 MHz	32	38	-	dB	
	1850 – 1910 MHz	37	43	-	dB	
	1920 – 1980 MHz	35	41	-	dB	
	2401 – 2483 MHz	36	49	-	dB	
	2500 – 2570 MHz	35	47	-	dB	
Input impedance		50			ohm	
Output impedance		50//18nH			ohm	
Device Size		1.4typ. x 1.0typ. x 0.5max.			mm	

*1) Specification of insertion loss includes loss that comes from the test board (0.1dB).

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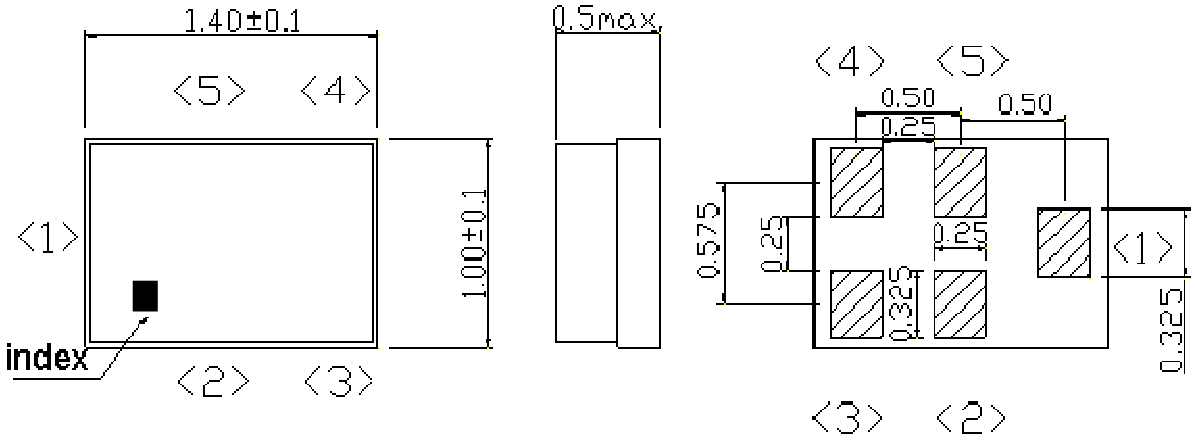
Part Number	FAR-F6KA-1G5859-D4MS	Version 2.0b	

Dimensions

Device size: 1.4typ. x 1.0typ. x 0.5max.

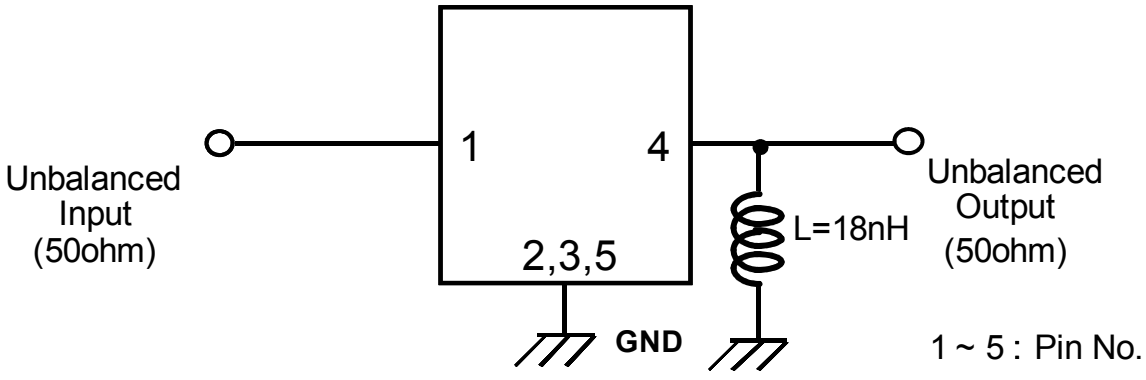


Unit : mm

Pin Configuration

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

Evaluation Circuit



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Part Number	FAR-F6KA-1G5859-D4MS	Version 2.0b	

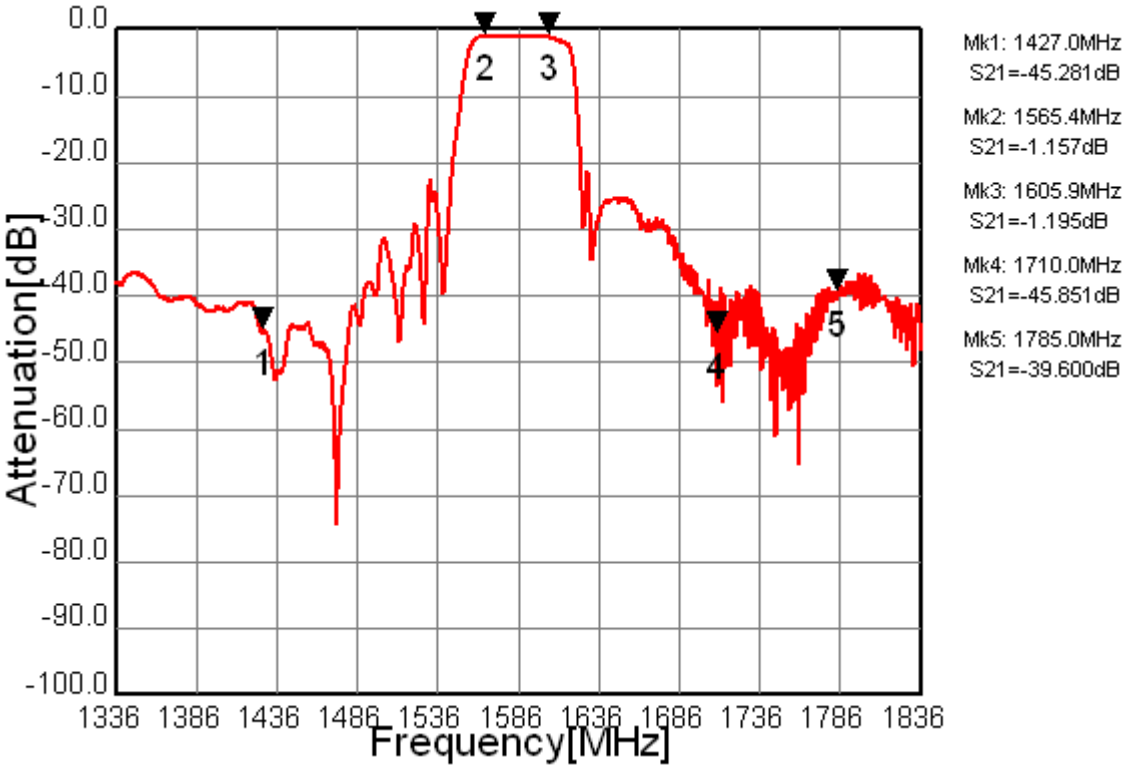

Fig.1 Pass-band Characteristics

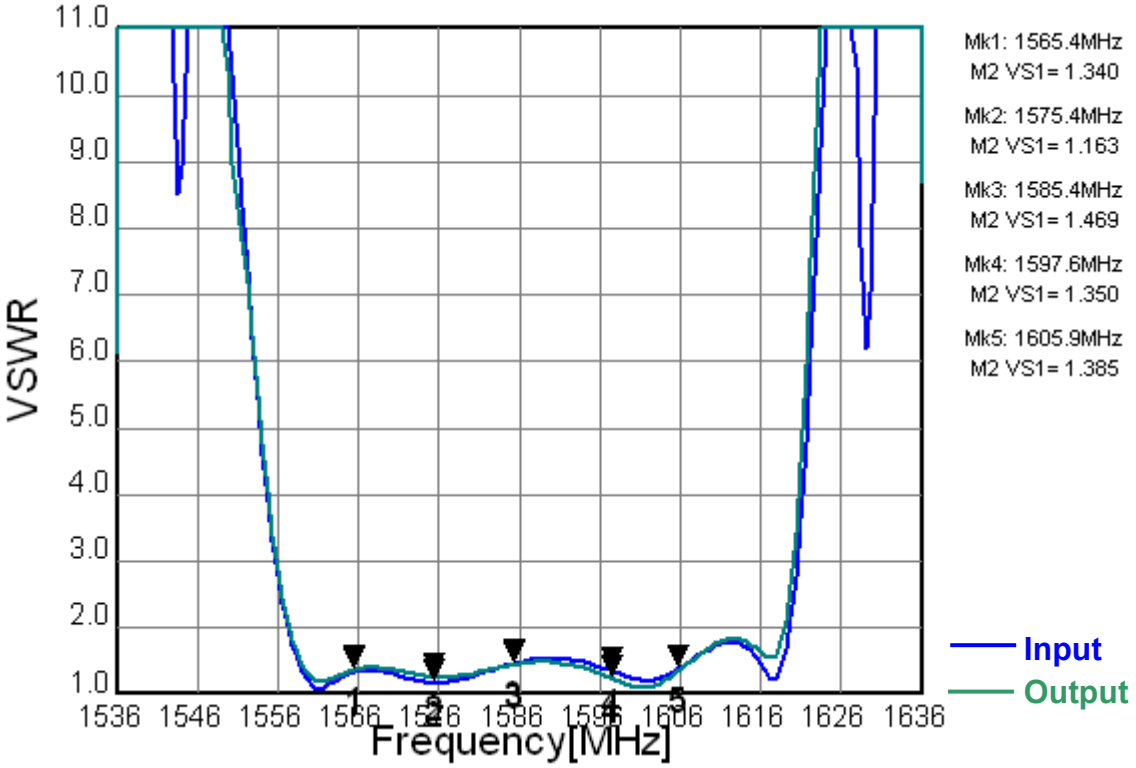

Fig.2VSWR

Pb-free

RoHS MSL1

*Pb Free part

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	***GPS+GLONASS*** (Unbalance 50/50 ohm)	Date	March 31, 2010
Part Number	FAR-F6KA-1G5859-D4MS	Version 2.0b	

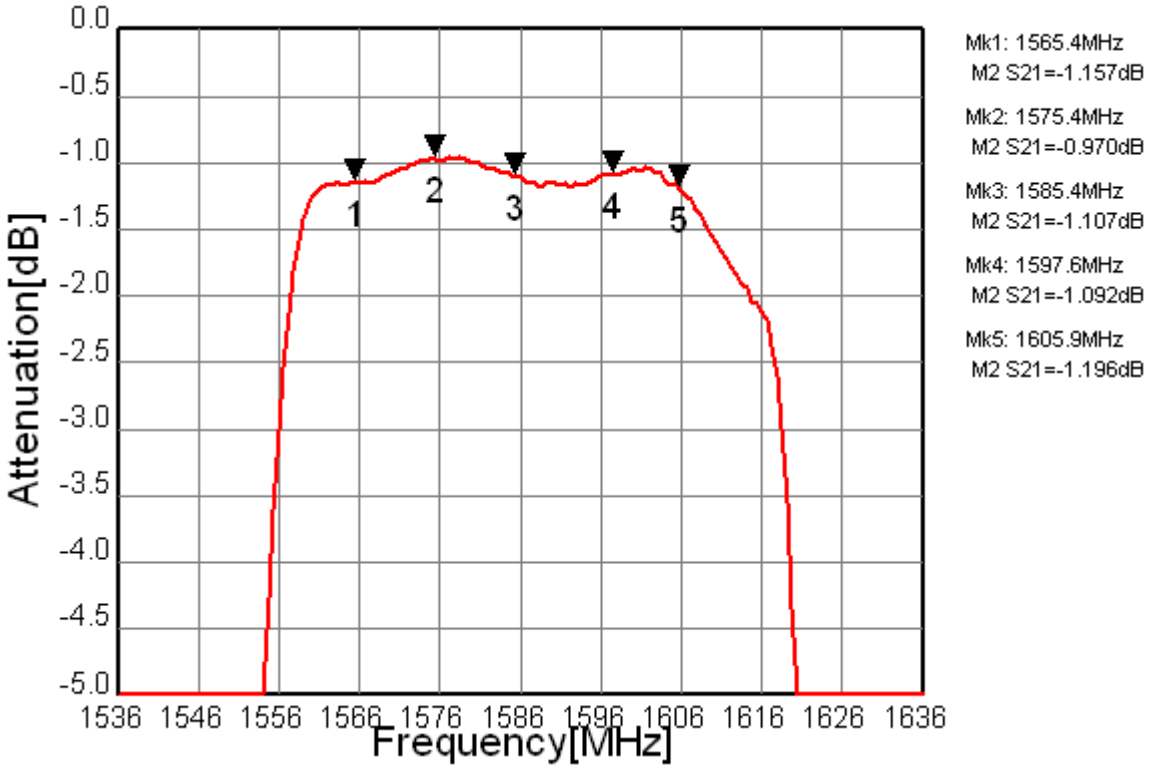

Fig.3 In-band Characteristics

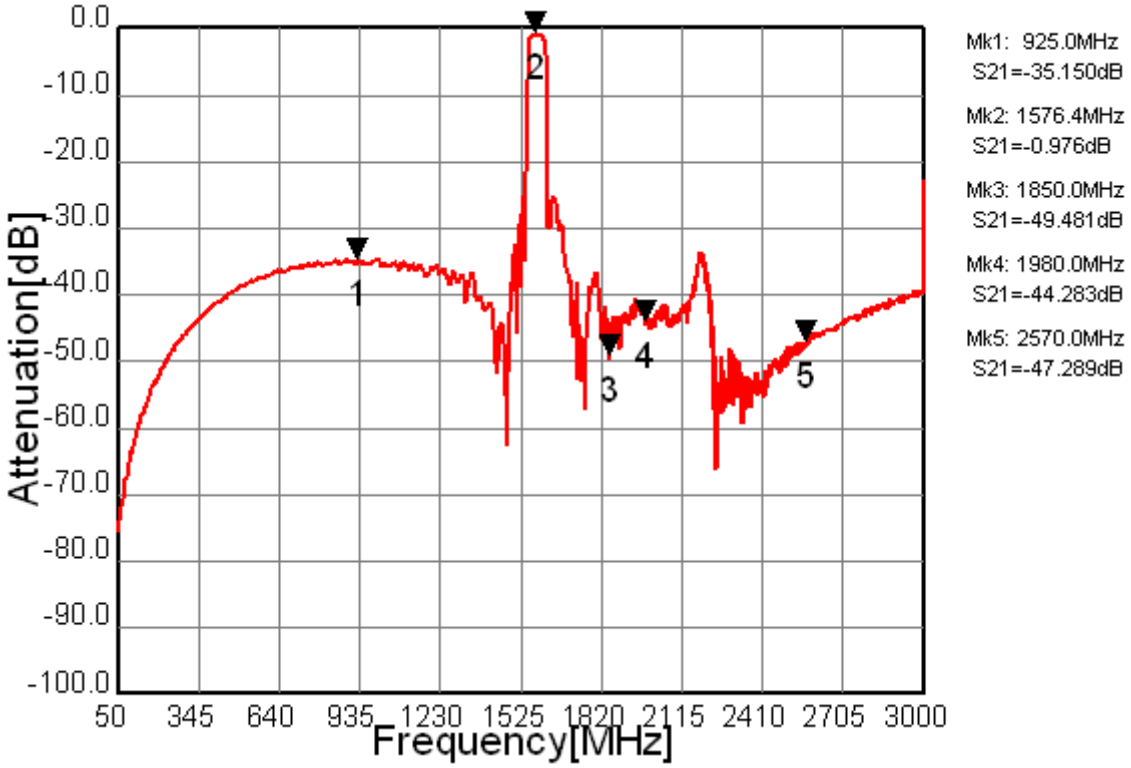

Fig.4 Wide-band Characteristics

Customer Name	**Standard specifications**	TAIYO YUDEN Mobile Technology Co.,Ltd.	
System	***GPS+GLONASS*** (Unbalance 50/50 ohm)	Date	March 31, 2010
Part Number	FAR-F6KA-1G5859-D4MS	Version 2.0b	

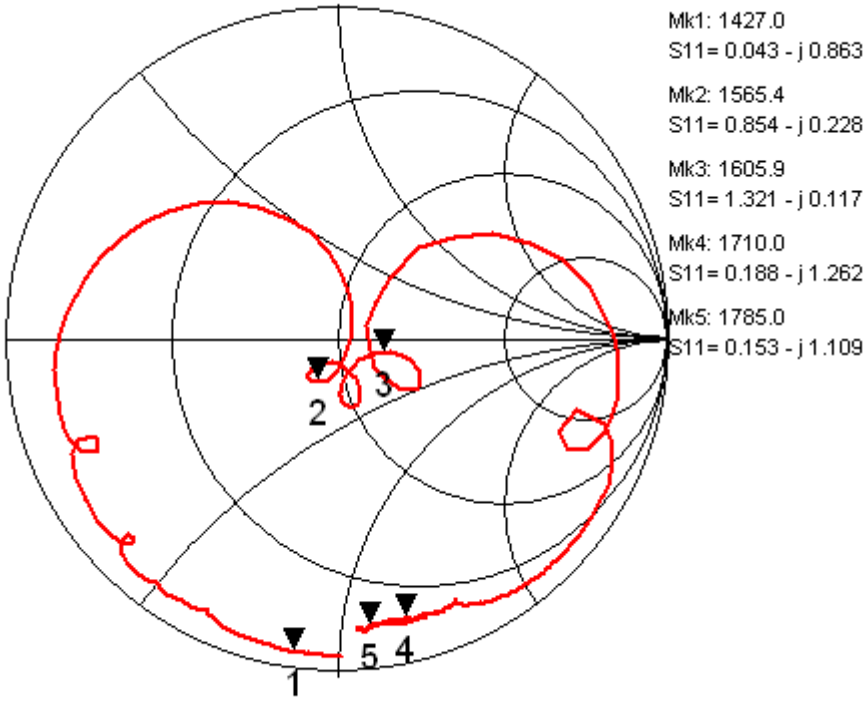

Fig.5 Input Impedance

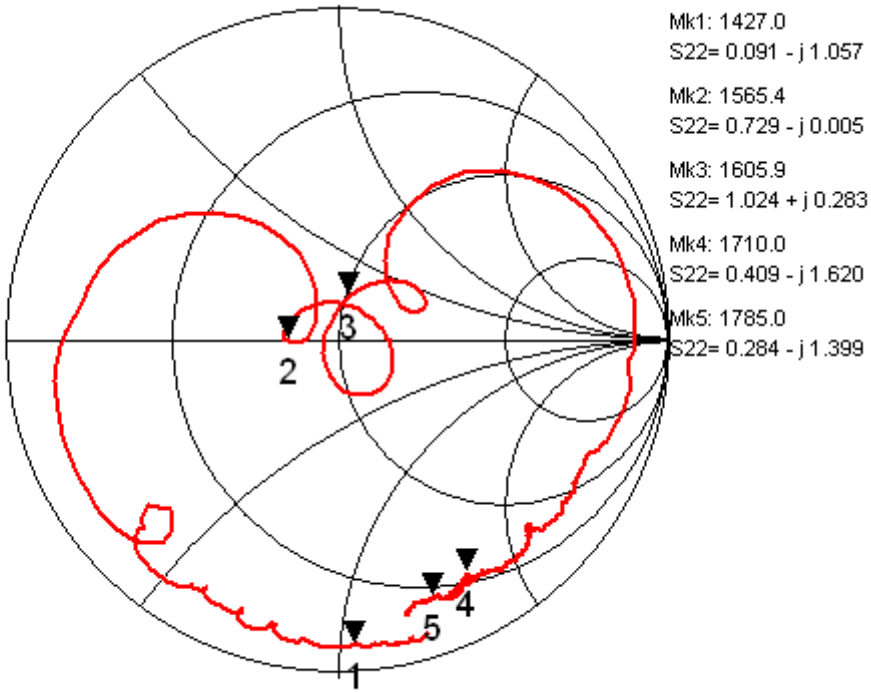

Fig.6 Output Impedance