

(19) (KR)  
(12) (A)

(51) . Int. Cl.<sup>7</sup>  
H04B 1/40

(11)  
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2004 04 17

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	2004 02 10		
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(71) , -2074 , 3

(72) , , -4514, 6

, , -2000, 36

, , -2000, 35

, , -2000, - 12

(74)

⋮

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(54) R F

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		(3)	RF			(IF)	
		(2)				(12)	
	(20 25)	1	2		1		2
		1			1		
	2				1		1
				2			2
			(17, 18, 19)				
		1	2			2	
	RF/IF						

GPS , RF

RF

The diagram illustrates a neural network architecture with the following components and data flow:

- Input:** The input layer consists of 12 units, represented by a row of 12 circles.
- Filtering:** The input is processed through a series of layers:
  - Layer 1: 6 units (1, 1, 2, 1, 2, 1)
  - Layer 2: 3 units (1, 1, 1)
  - Layer 3: 2 units (2, 2)
  - Layer 4: 2 units (2, 2)
- Mixer:** The output of the filtering layers is combined into 3 units (1, 1, 1).
- Unit:** The mixed data is processed by 3 units (1, 1, 1).
- Output:** The final output consists of 3 units (1, 1, 1).
- Shaping:** The final output is shaped into 3 units (1, 1, 1).

GPS , GPS

GPS . , GLONASS

RF , GPS

RF

GPS

.RF

가 1

3

1, , GPS 가 RF  
 RF, (2), , GPS, RF  
 Ghz . . , , , , 1, 57542  
 . .  
 (101) 1 1 (102) 1 (102) 1 (102) 1 (109) (101) 1  
 . . . . . . . . .  
 1 (102) 1 (101) 1 (101) 1 SAW

1 , , 179.3 Mhz 1 1, 2168 Ghz(1, 36961 Ghz - 0  
 1, 3961 Ghz  
 1793 Ghz

1 (102) 2 (109) 1 (103)  
 (104) 2 (104) 2 (104)  
 , (103) SAW

1 8 , , 174.5Mhz 2  
 1 (110) 1 (102) 169.7 MHz(174.5 MHz - 4.8 MHz)  
 2

2 (104) 3 (105) 3 (106) 3 (114) (105)  
 CIK (105) (115)

363 MHz 3 , , 17.452 MHz 4  
 3 400KHz 4

3 (106) 4 (sample and hold) (107)  
 (108) CLK (108)

1 2 , (109), (112) (109)  
 esiser)(100) (112) (112)  
 (113)

1 3 , , 1, (110, 111), (109)  
 RF RF

1 SAW 2  
 5mm\*5mm\*1.3MM , SAW  
 (gain)

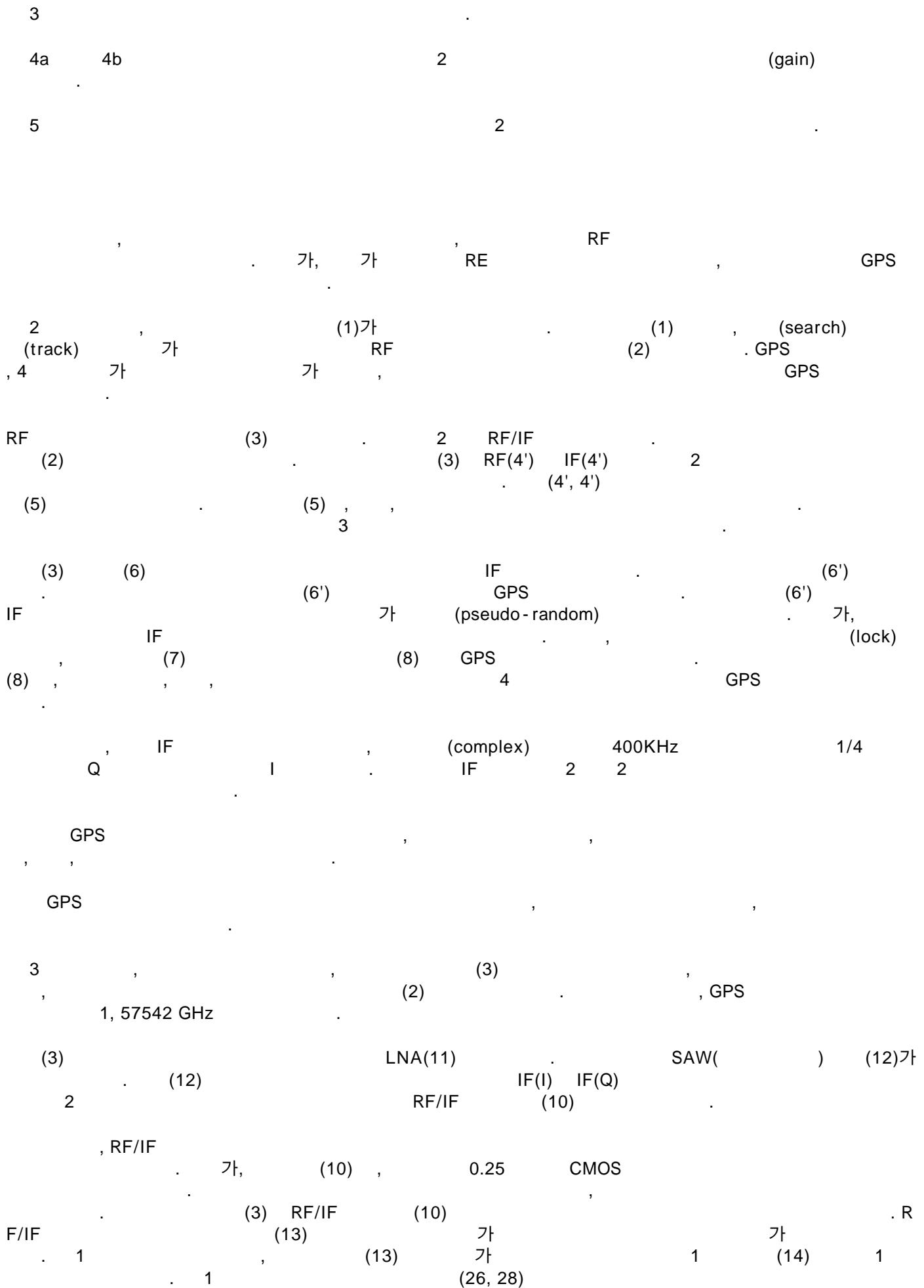
2 , , , EP0 523 938 B1  
 3  
 2

1 (30) 1 (14) 1 (28)  
 (12) (14) 1 1 1  
 MHz (order) 2 (16) 2 2 (18)  
 2 (22) 2 (18) 1  
 MHz 3 (20)

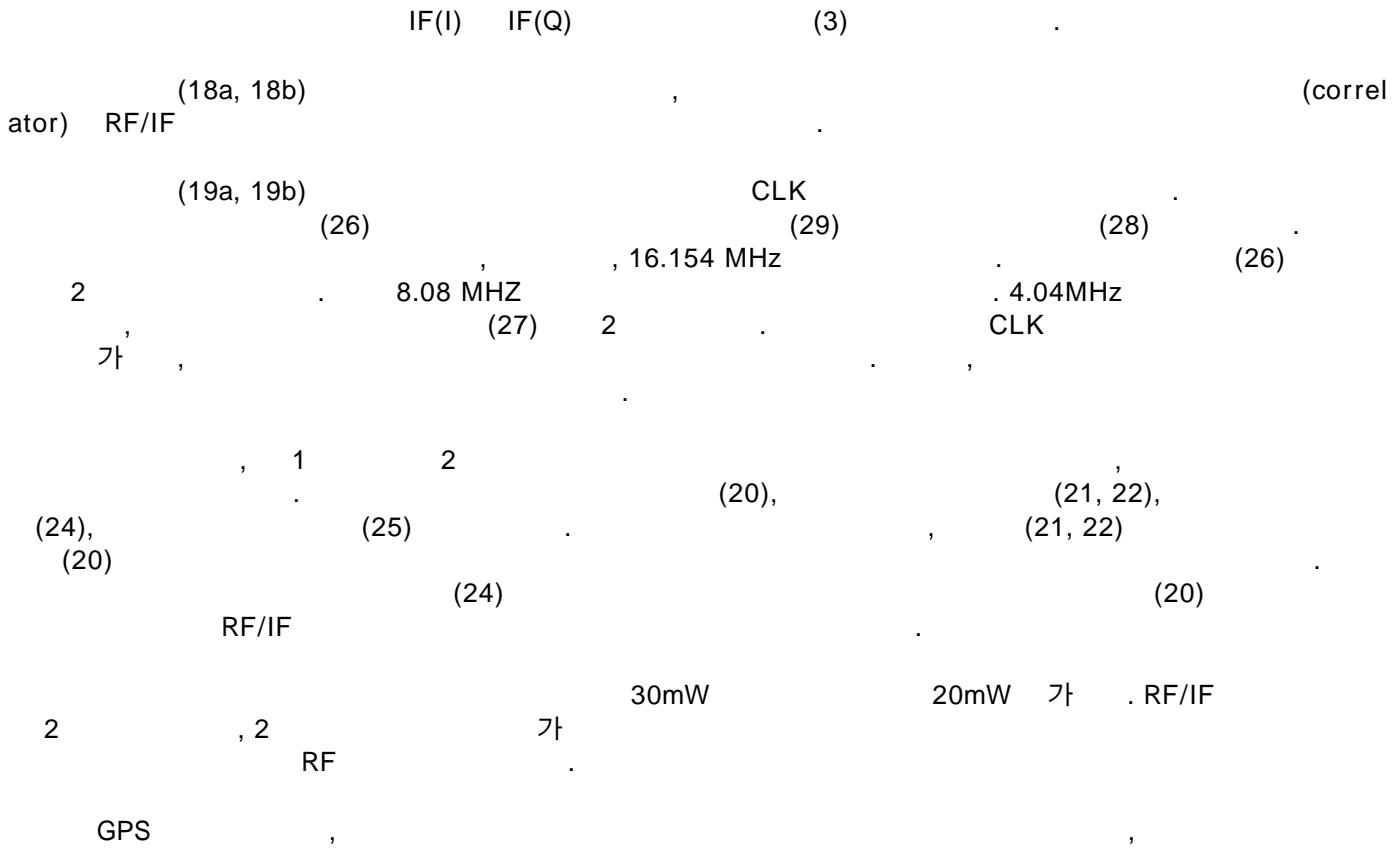
200

26





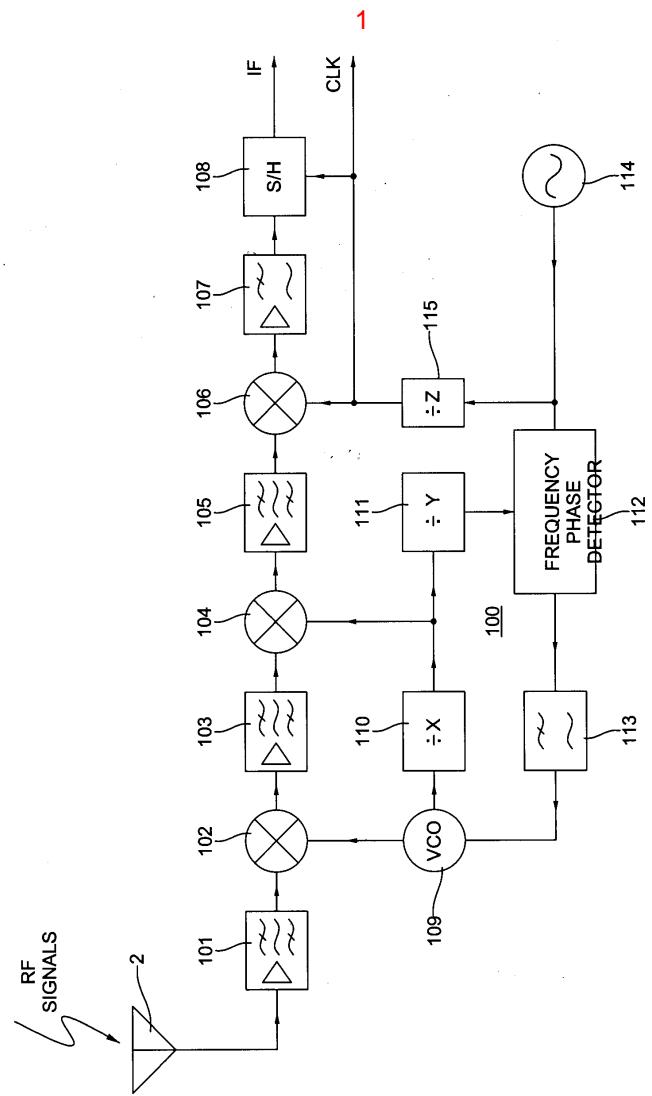
(14)		VCO(20)		(14)		
	1	1, 5508 GHz		1	1, 57542 GHz	
50	100		64	24.6MHz	(14)	
1	(14)	1	(12)	1	(14)	SAW
1	4.6 MHz GHz)	1	1	1	1	1, 5262 GHz(1, 5508GHz - 0.0246
1MHz)	1 (14) 24.6 MHz	2	(15)	RF/IF	GPS 49MHz	2 (24.6 MHz □ 가)
2	4a 4b	1	179MHz	IFA - gmC	24.6 MHz 가	1
5						
4a 4b	1	179MHz	SAW			
		4.8MHz 179 MHz	4dB		169.7 MHz	
2 MHz						
5	24.6 MHz	RF/IF	2			
5	49 MHz		24.6MHz		가	
3	2 (16a, 16b)	2 (15) (16b)	2	2 (16a) 1/4	2 (16) 2 (15)	2 (15) (16)
2	1/4 (20) (21) 32	1 (21)		2 (23)	2 (23) 2 1/4	(23) 1
2	1, 5508 GHz				24.2 MHz	
(16a, 16b)		1	(16a, 16b)		2 400kHz	가
a. 17b)						
		(16a, 16b) (18a, 18b)		/	(19a, 19b)	(1.5MHz)(17)

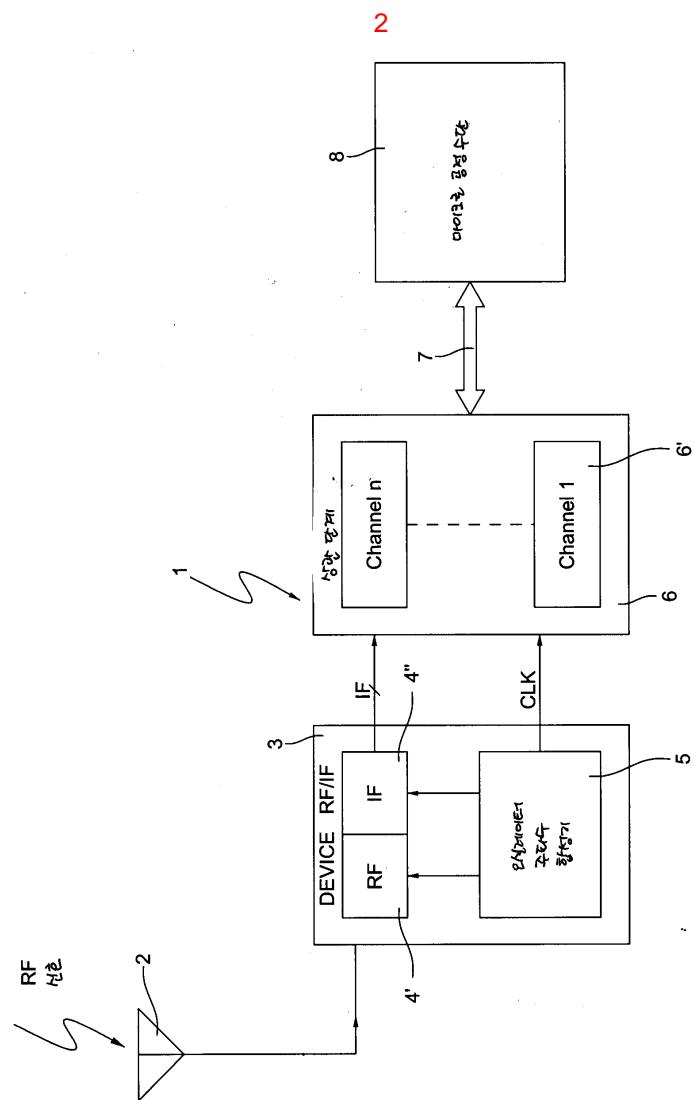


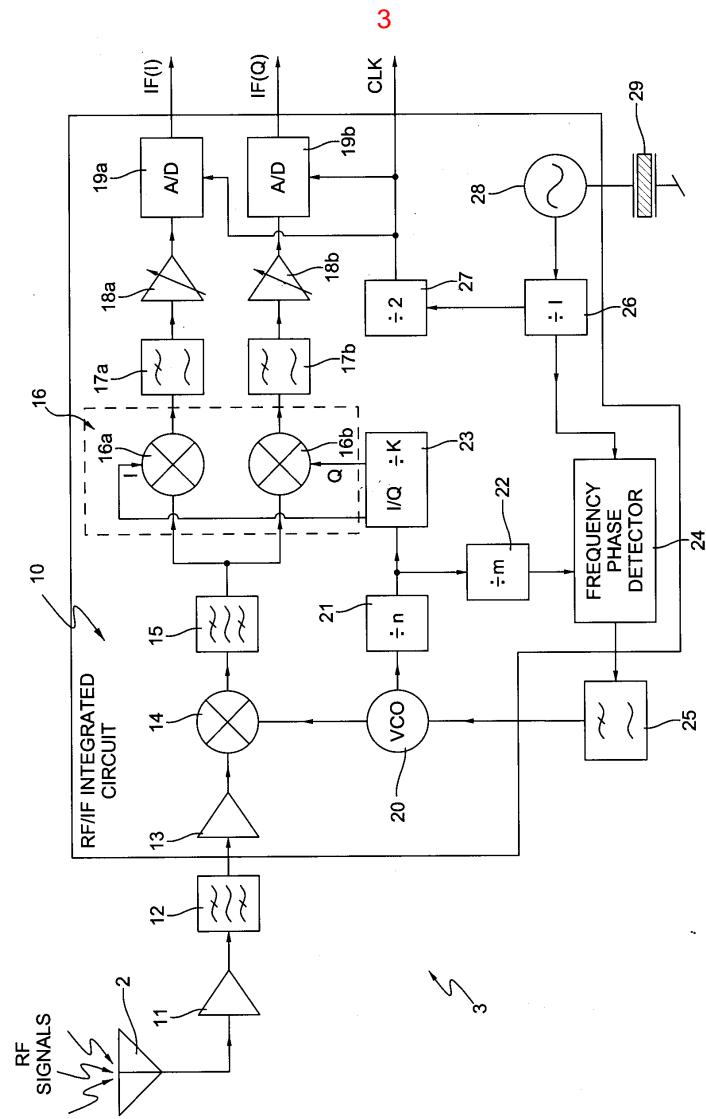
(57)

1. 1 (2) 1 (12), ,  
1 1 2 (20 29), 1 2 ,  
1 1 2 (14)  
1 1 2 (15)  
1 1 2 2 2 (16),  
1 1 2 (17, 18, 19)  
, 2 ,  
, RF (3) (1) (6) (IF)
2. 1 2 (10) 1 2 , , , , (3).
- 3.

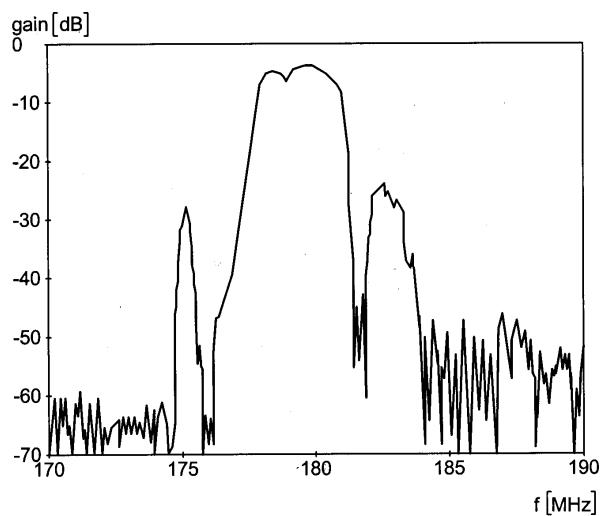
- 1 , 2 , , (3). 1
4. GPS 1 , 1 , 1 , 64  
50 100 (3).
5. 1 , 1 , 2 , n , n , , 50  
100 , 64 (3).
6. 1 , (26 29) 1  
2 , (3).
7. 1 , , 2 , (20 25)  
2 , 1 (3).
8. 6 7 , , , , , 1  
, RF/IF , , , , 1  
(3).
9. 1 , 2 , 2 , 2 1/4 , , 2 , 2 , 2  
1 , 1 , 2 , 1 , (16a) , 2 1/4 , 1/4 , 2 , 2  
(3).
10. 9 , , , 2 , , , / (17a, 17b) , , ,  
(CLK) , , , / (19a, 19b), , , 1/4  
(3).
11. 6 7 , , , , , , , (29)  
RF/IF 10 MHz 20 MHz (3).
12. 1 RF/IF , , 1 , 2 , , 2 , , (3)  
RF/IF .
13. 12 RF/IF , 0.25 CMOS , , (3) RF/IF  
,



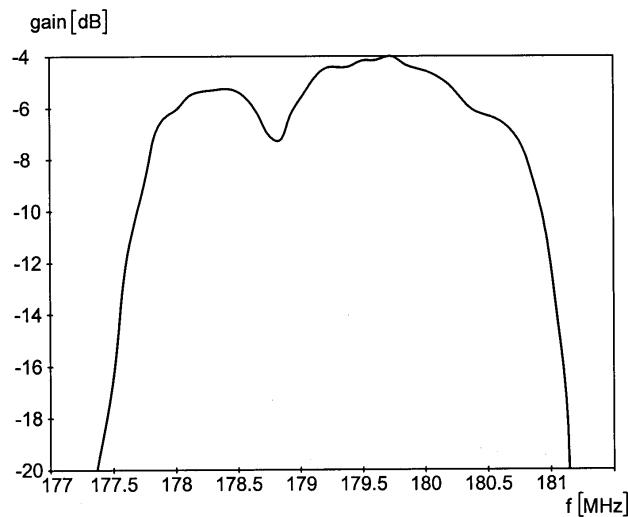




4a



4b



5

