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(A)(51) 。 Int. Cl. ⁷
H03F 1/32(11)
(43)2002 - 0006721
2002 01 26(21) 10 - 2000 - 0040056
(22) 2000 07 13(71) . .
2 562(72) 2 562 (2)
2 562 (2)

(74)

:

(54)

PCS 30Watt

가 .

2

(HPA), , , , ,

1 - ,

2 .

< >

100 : 1 200 : 1

201 : 2 202 : 1

203 : 2 204 : 2

300 : 2 301 : 1

400 : 1 500 : 2

501 : 2 502 : 3

600 : 3 601 : 4

602 : 5 700 :

R1, R2 : C1, C2 :

PCS(Personal Communication Service) (HPA : High Power Amplifier) ,
30(Watt)

.

가 , 가

가 , 가

(CDMA : Code Division Multiple Access)

(HPA)

가

(HPA)

(Main AMP)(2), (3), (4), (5), (6), (Coupler)(1),
(Hybrid Combiner)(7), (8), (Sub AMP)(9), (10)

(Feed - Forward)

(1) RF(Radio Frequency; (Main Pass) (Sub Pass) RF
(2) (1) RF (2) RF
(3) RF (2) RF (3) RF
(4) (1) (2) (3) (7) (2) RF (3) RF

(5) (1) (1) RF (5) RF 180°
(6) (7) (6) (5) RF 180°
(7) RF (7) RF (6) RF

(7) (2) (3) (8) (1) RF
(6) (7) (1) (8) (1) RF

(8) (1) (7) 180°
(9) (8) (1) RF

(9) (8) 180°
(10) RF

(4) (3) (7) RF (4) RF

(10) (4) (1) (9)
RF (10) RF

가

1, RF

- (Main - path) 가 가 (Sub - path) 가 가 (Loop) , -
 , 가 (Output) 1 , - (Delay - Line) ,
 , 1 , 가
 , 가 (Point)
 , ,
 , RF
 RF (dB) 1 ;
 1 RF RF
 1 ;
 1 (dB) , 1 RF
 2 ; /
 2 RF (a, b) 1 ;
 1 a, b RF 2, 3 , RF 1 a, b 2
 RF ; RF
 2 2, 3 RF 4, 5 ,
 2 2, 3 / RF 3 ;
 (dB) 3 4, 5 RF 1
 .

2

1840 1870MHz PCS

30Watt " RHP - 1800T3050C - 27V"

(500), 3 (600), 1 (100), 1 (700) (200), 2 (300), 1 (400), 2

1 (100) RF AH - 1 (10dB, 0.25W) , RF (200)

1 (200) 1 (100) RF RF 10dB 가

2, 4) (R1), (Condenser)(C1), 2 (201), 1 (Diode)(20 (203), (R2), (C2), 2 (20

1 (200) 2 (201) 1 (100) RF (c, d)

가 1 (200) 2 (201) c (202) RF 2 (201) c (204)

1 (200) (R1) (C1) 1 (202) RF (202) / (Feed - back)

d 가 1 (200) 2 (203) 2 (201) d (204) RF 1 RF (202) , 2 (201) 2

1 (200) (R2) (C2) 2 (203) (203) RF

1 (200) 2 (204) 1, 2 (202, 203) RF (202, 203) 1, 2 (300)

2 (300) 50dB 2 (600) (301) , 1 (200) / (dB)

RF 1 (400)

1, 2 (300) 1 (301) AH - 1 (10dB, 0.25W)
 1, 1 (301) (Fujitsu) FLL177ME (12dB, 2W)
 1 (301) (Fujitsu) FLL120MK (10dB, 10W) .

1 (500) 2 (400) 2 (300) RF a 2
 2 (501) b 2 (500) 3 (502)

RF 2 (500) 1 (400) a, b 2, 3 (501, 502)
 1 (400) a, b RF 2, 3 (501, 502)
 02) MRF284 3 (600) , 2, 3 (501, 502)

3 (600) 2 (500) 2, 3 (501, 502)
 4, 5 (601, 602) , 2 (500) 2, 3 (501, 502)
 02) RF (dB) , 4, 5
 / 1 (700) , 4, 5
 (601, 602) XRF19125 .

(700) 3 (600) 4, 5 (601, 602) RF
 RF .

가 2

1 (100) RF 2 RF
 , 10dB 1 (200) .

1 (200) 2 (201) 1 (100) RF
 2 (c, d) , 2 (201) RF
 가 .

1 (200) 1 (202) 2 (203)
 2 (201) c d 2 RF , RF
 2 (204) . , 1
 (202) 2 (203) 2 .

1 (200) 2 (204) 1, 2 (202, 203)
 RF 2 (300) .

2 (204) 2 .

2 (300) 1 (200) RF (300)
 (dB) 1 (400) , 2 (300)
 2 , 2 RF 가 2 (300)
 (dB) 2 .

$\frac{1}{2} \frac{(400)}{(502)} \frac{2}{2} \frac{(300)}{(501)} \frac{2}{b} \frac{RF}{2} \frac{, a}{(500)} \frac{3}{3}$
 $\frac{2}{3} \frac{(500)}{(600)} \frac{RF}{2, 3} \frac{(501, 502)}{(501, 502)} \frac{1}{2} \frac{(400)}{.}$
 $\frac{3}{2} \frac{(600)}{(700)} \frac{RF}{가} \frac{4, 5}{2} \frac{(601, 602)}{(300)} \frac{2}{(dB)} \frac{(500)}{(dB)} \frac{2, 3}{, 2} \frac{(501, 502)}{.}$
 $\frac{(700)}{,} \frac{3}{RF} \frac{(600)}{(601, 602)} \frac{4, 5}{2} \frac{(700)}{(700)} \frac{RF}{2}$

가 .

(57)

1.
 $\frac{RF}{1} \frac{RF}{1} \frac{(dB)}{1} \frac{1}{;}$
 $\frac{1}{1} \frac{RF}{1} \frac{RF}{(dB)} \frac{1}{/} \frac{RF}{1}$
 $\frac{2}{2} \frac{RF}{(a, b)} \frac{1}{;}$
 $\frac{1}{a, b} \frac{2, 3}{1} \frac{RF}{a, b} \frac{2}{2}$
 $\frac{RF}{2} \frac{RF}{2, 3} \frac{2, 3}{2, 3} \frac{RF}{3} \frac{4, 5}{;}$

3 4, 5 RF 1

.

2.

1 ,

1 , 1 RF (c, d)

2 ;

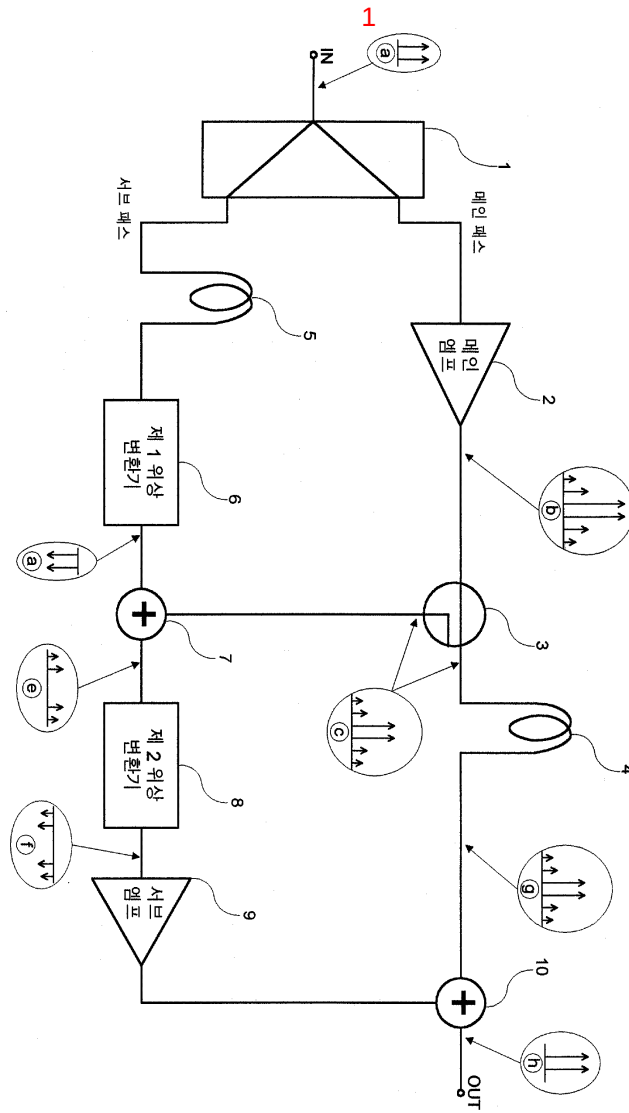
2 c 가 , 2 c RF
RF 1 ;

1 / , RF
(R1) (C1);

2 d 가 1 ,
2 d RF RF
2 ;

2 , RF (R2)
(C2);

1, 2 , 1, 2
RF 2 2
.



2

