

(19)
(12)

(KR)
(A)

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2001 11 29

(21) 10 - 2000 - 0063891
(22) 2000 10 30

(30) 1020000044521 2000 08 01 (KR)

(71) 3 631 - 1 1 301

(72) 3 631 - 1 1 301

(74)

:

(54)

, , T , T
, , T T 가
, (Q) .

- 1 .
- 2(a) 1 a .
- 2(b) 1 b .
- 3 .
- 4 3 .
- 5 .
- 6 .
- 7 6 .
- 8 .
- 9 .
- 10(a) 9 (strip line) .
- 10(b) 9 .
- 11 9 GHz 가 .

*

10 : 20 :

18, 26, 28, 39, 41 : 22 :

36, 42 : 38 : T

40 :

가

, TV,

lapp oscillator) (colpitts oscillator), (hartley oscillator), (c

가

(spurious)

Amp

가

가 1

1

(10)

(20)

(10)

(12)

(10)

(14)

(20)

(20)

(16)

(22)

(22)

(24)

(26)

(22)

(28)

(30)

(32)

(34)

(22)

(16)

(10)

(20)

(14)

(22)

(30)

(32)

가

(32)

(34)

(22)

(22)

(20)

(24)

(22)

(22)

(26)

(22)

(28)

(22)

(26)

(28)

(10)

(26)

(28)

(22)

(26)

(28)

(20)

가

가

가

가

C/N 가 ,

T T , T
T

T , T

가 가 .

가 (20)
(low pass filter)

(Q) (10) (20)

3

3

1

1

3

(22)

(36) 가 .

(36)

(28)

(22)

(22)

(22)

(22)

가

(3

6)

(22)가

(26)

가 ,

가

가

(36) (26) (22)

(10)

(36) (26) (22)

(22)

(18) (10) (16) (18)

(22) (Field Effect Transistor)

(26) (36) 가 가

(26) (36) 가 가

4 3 1 (12) 330nH,
 (16) 33pF, (18) 3pF, (24) 820 , (26,28) 15pF, (32) 100K ,
 (34) 200K , (36) 100nH 가 , (14) HUV359, (22) 2SC4649
 40MHz, 200MHz 320ms
 10dB

4 95.2MHz 1 47.6MHz 2
 -33.30dB 4

2 1 4

2(a) 1 A 1 1
 2 가 -25.60dB 2(b) 1 2
 B 가 -11.60dB 1 2

1

5 (22) (24) (36) 가 5 (36) (24)
 (36) (28) (22) (22)
 (22)가 (22)
 (26) (22) 가 가

(26) (22)

(10) , , .

(26) (22) (22)

2 , 2

5 3

6 6 (38) T (38) T (38)

(22) (28) (22) (22) (22) (22) (38) (38)

(28) (22) (22) (22) (22) 가 (

(22)가 (26) 가 , (22)가 가 (

38) (26) 가 , (22)가 가 .

(38) (26) (22)

(10) , ,

, T (38) (28) (22) (22)

2 , 2 (22)

(22) , ,

가 (26) T (38) 가 ,

(26) T (38) (38) 가 가 .

7 6 , 3

100nH, 10pF 4 , T 1 (38)

2 가 -41.30dB . 7 , 1

-25.60dB, -11.90dB 가 가 .

8 (22) (24) T (38) T (38) (38)
 (28) (22) (24)
 (22)가 (22) (22) (22)가
 (26) 가 , 가 ,

(26) (22)
 (10) ,
 (26) (22) (22)
 , 2 , 2

(26) T (38) 가 ,
 가 (26) T (38) 가 .
 8 , 7

9 (strip line)
 , 10(a) 10(a)
 (101) (102) (103) (103)
 (101)가 (103) 10(b) (103)
 101 10(a) 10(b) , GHz 가 (IN) (102)
 (OUT) (101)가 (101) 가
 GHz , 가 .

9 (22) (28) (40) 9 (40)
 GHz (40) (28) (22) (22)
 (22)가 (22) (22)
 (40) , (40) (39) 가 ,
 (22) 가

(40) (39) (22)
,
(10) ,
11 GHz 9
가 가

(40) (39) (22) (22)
, , 2 , 2

(22) (FET) ,

(39) (39) 가 , 가
(40) 가 가

가 가 , 가

가 가 , 가

가 ,

(57)

1.

,
,
가

2.

1 , , .

3.

1 , .

4.

1 , 가 .

5.

3 , .

6.

5 , .

7.

5 , .

8.

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가

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T

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T

,

,

T

.

9.

8 , T

2

,

.

10.

8 , T , 2 가 가

11.

8 , T

12.

11 , T

13.

12 ,

14.

12 ,

15.

1 7 ,

16.

8 14 , T

17.

가

(strip line) ,

18.

17 , 가 .

19.

17 , .

20.

19 , .

21.

20 , .

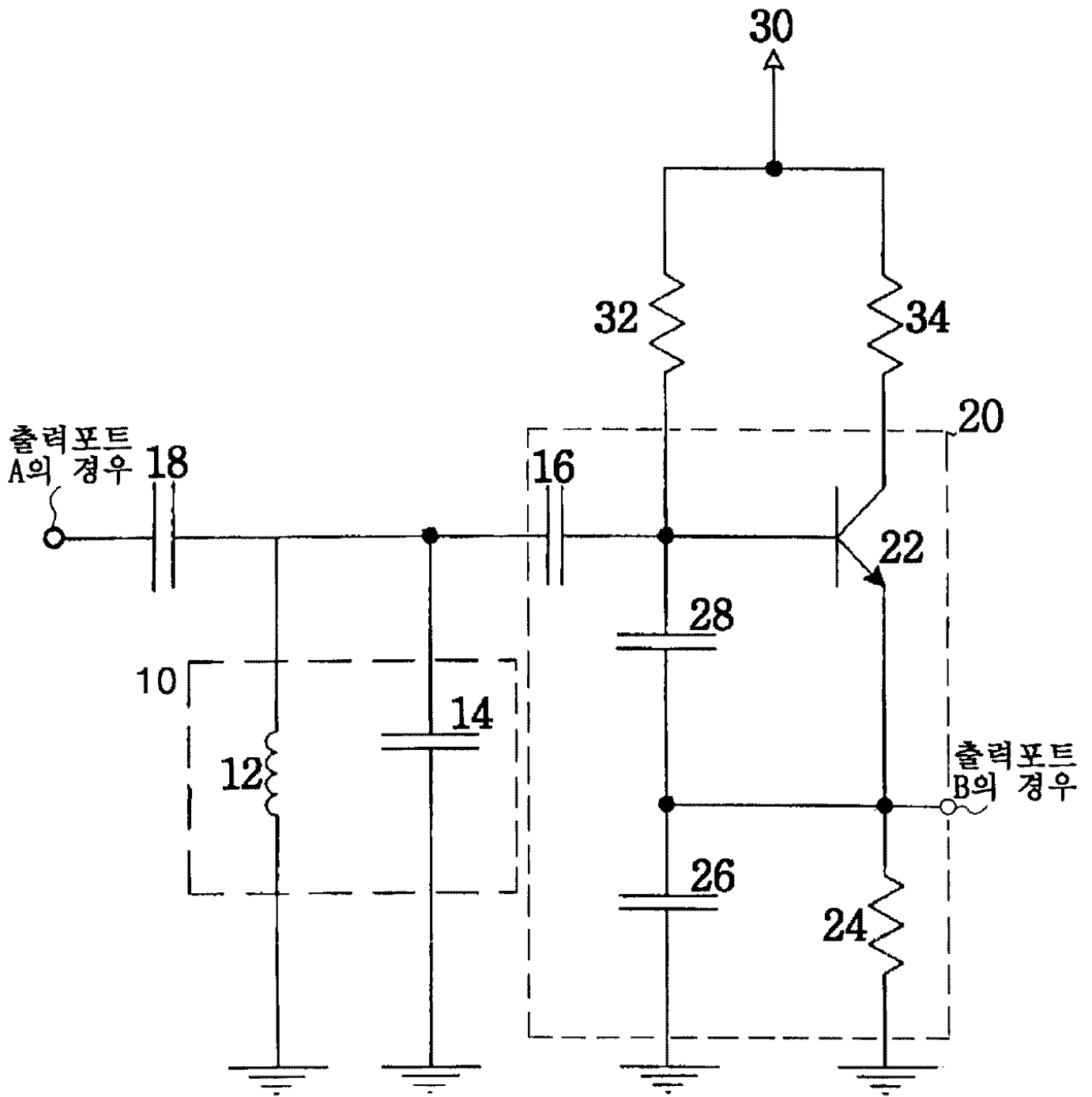
22.

20 , .

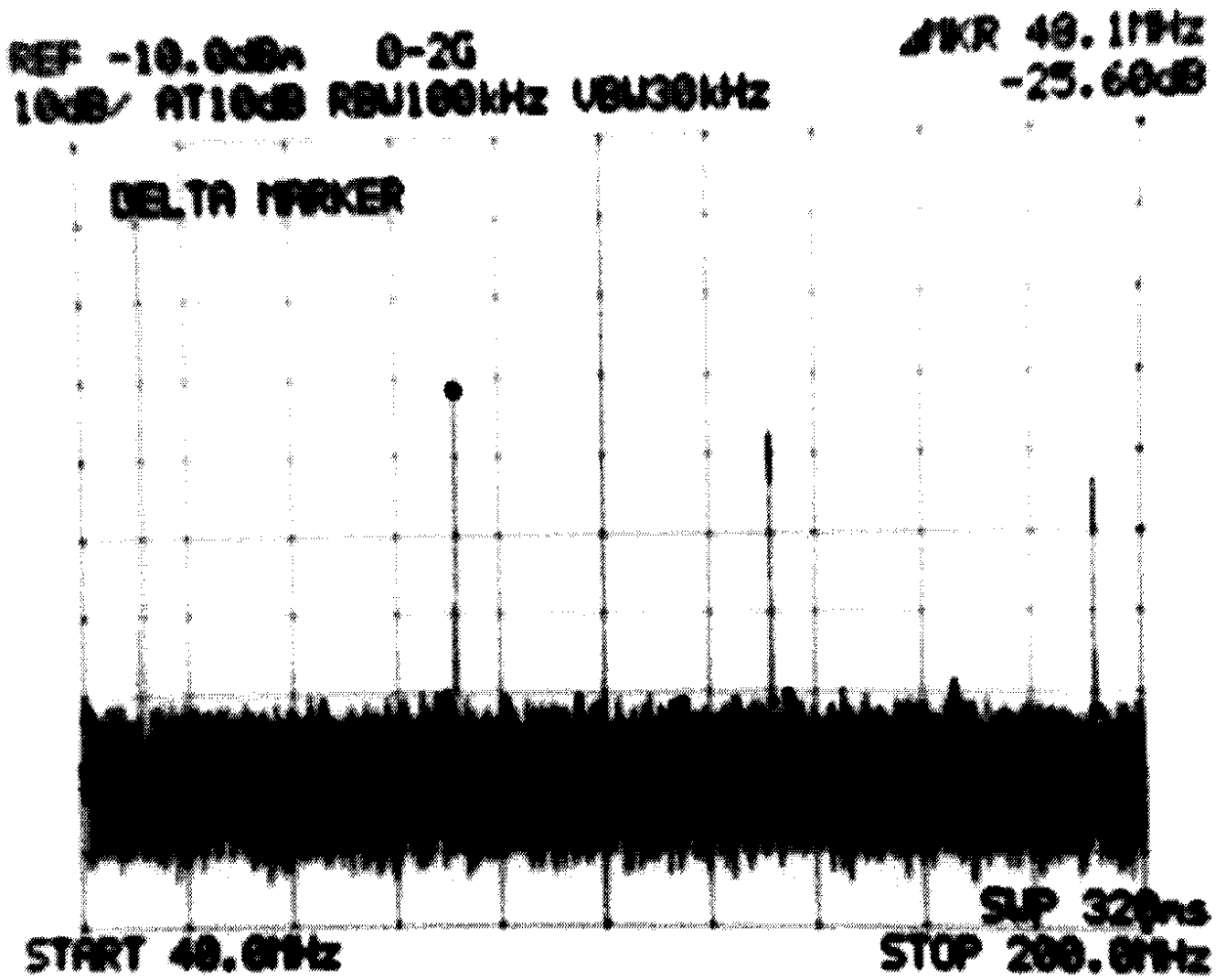
23.

17 22 , .

1



2a

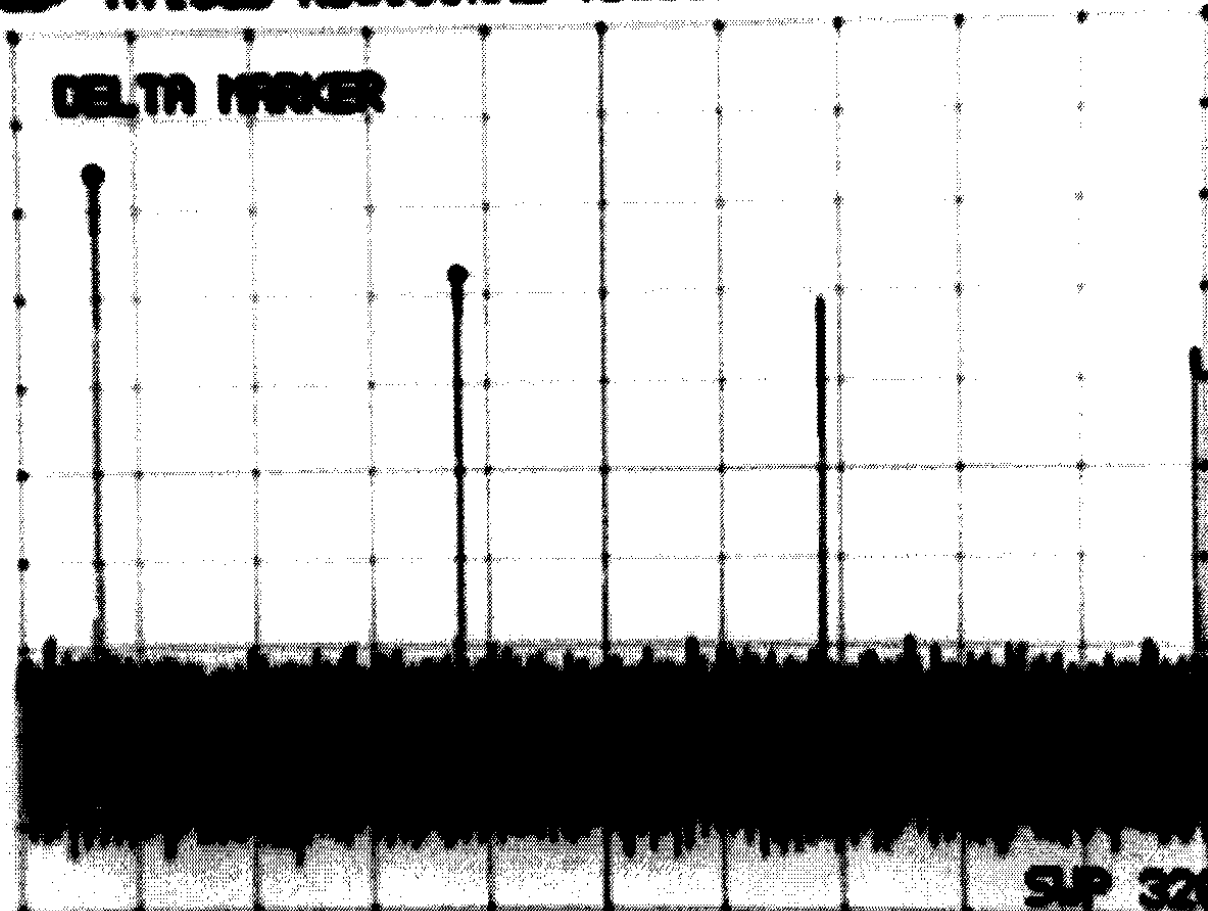


2b

REF -10.0dBm 0-25
10dB/RT10dB RES100kHz USU30kHz

MARK 49.6MHz
-11.90dB

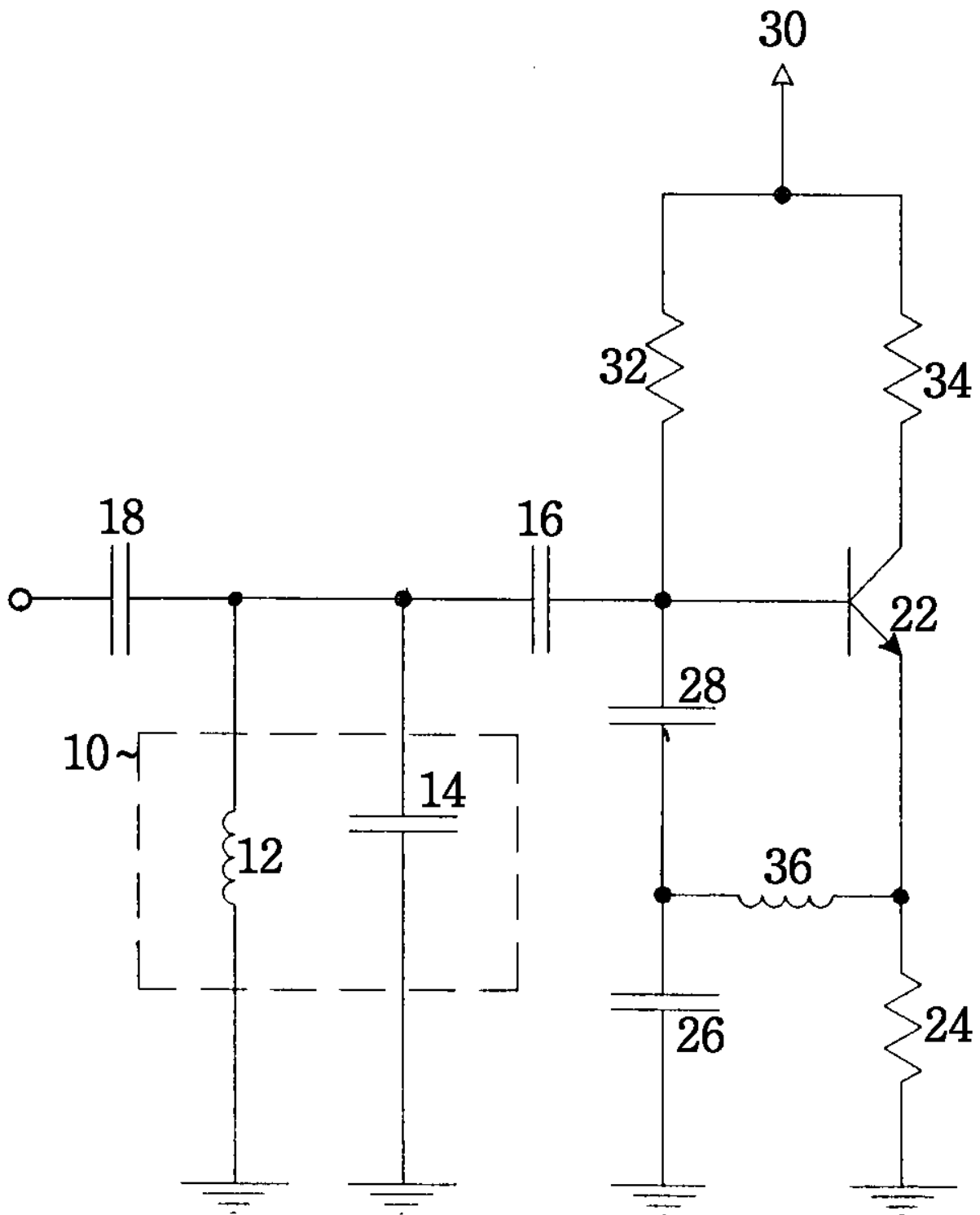
DELTA MARKER



START 40.0MHz

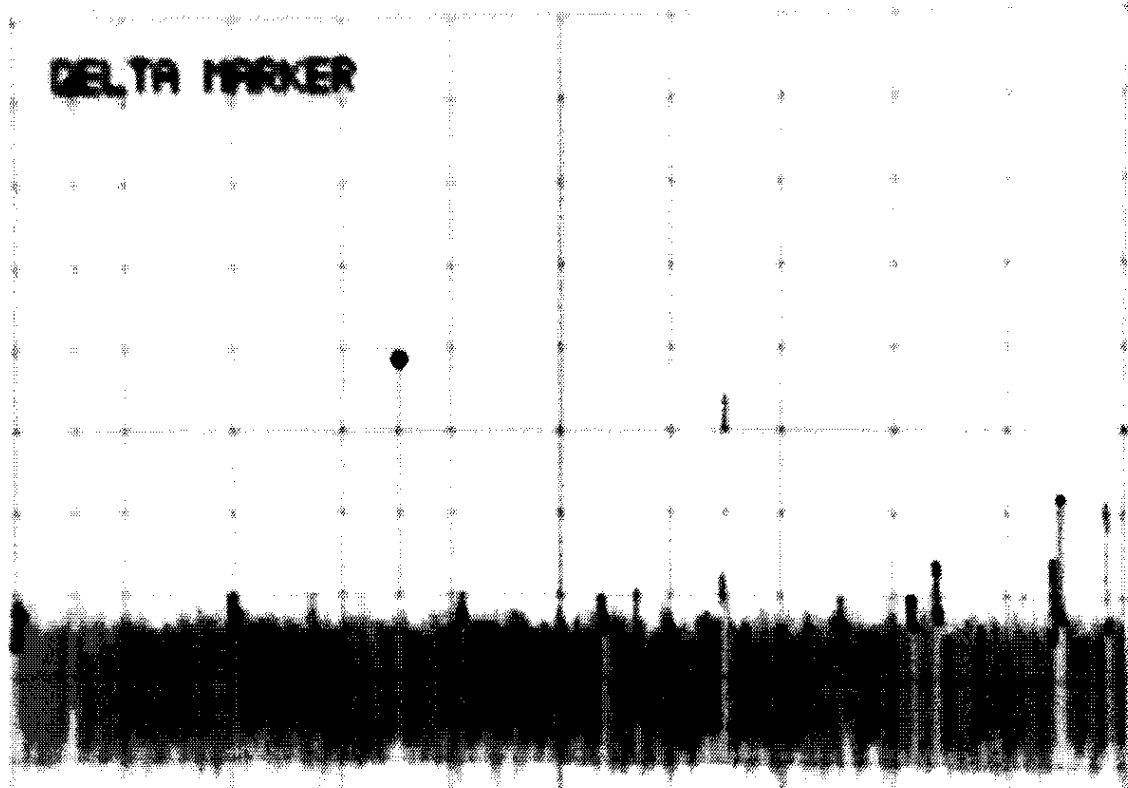
STOP 200.0MHz
SWP 320ns

3



REF -10.0dBm 0-2G
10dB/RT10dB RBW100kHz VBW30kHz

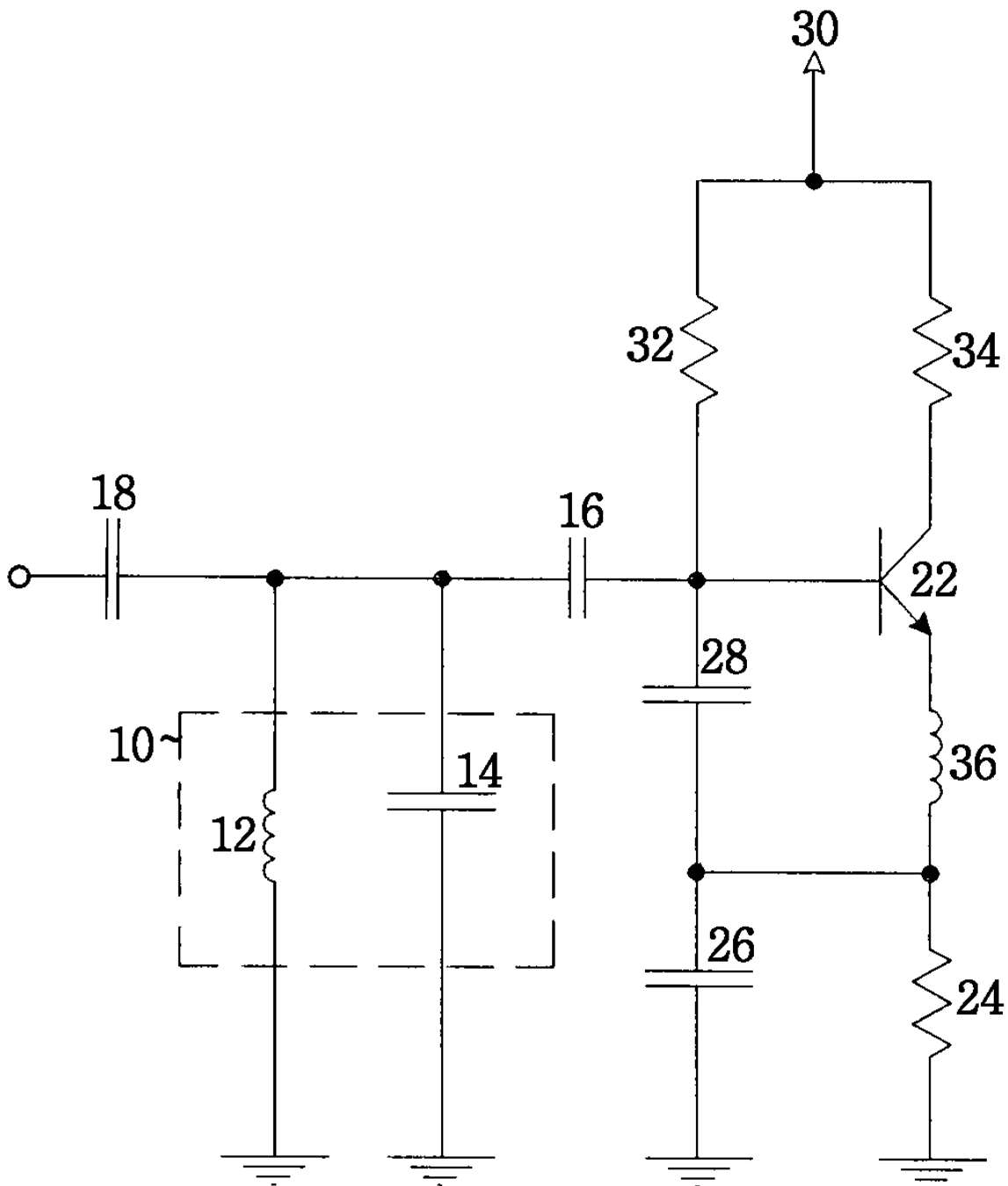
FREQ 47.6MHz
-33.30dB



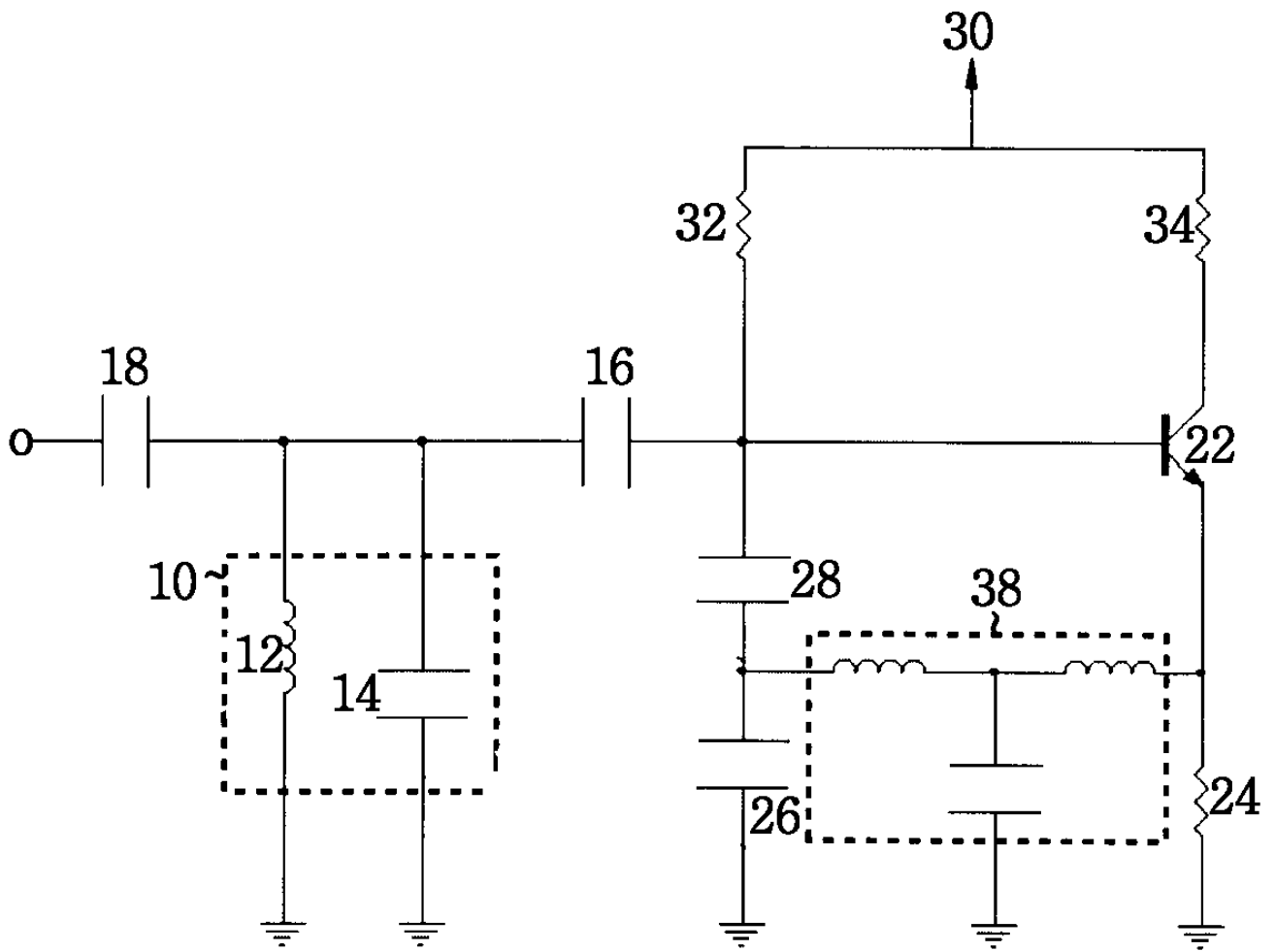
START 40.0MHz

SWP 320ms
STOP 200.0MHz

5



6

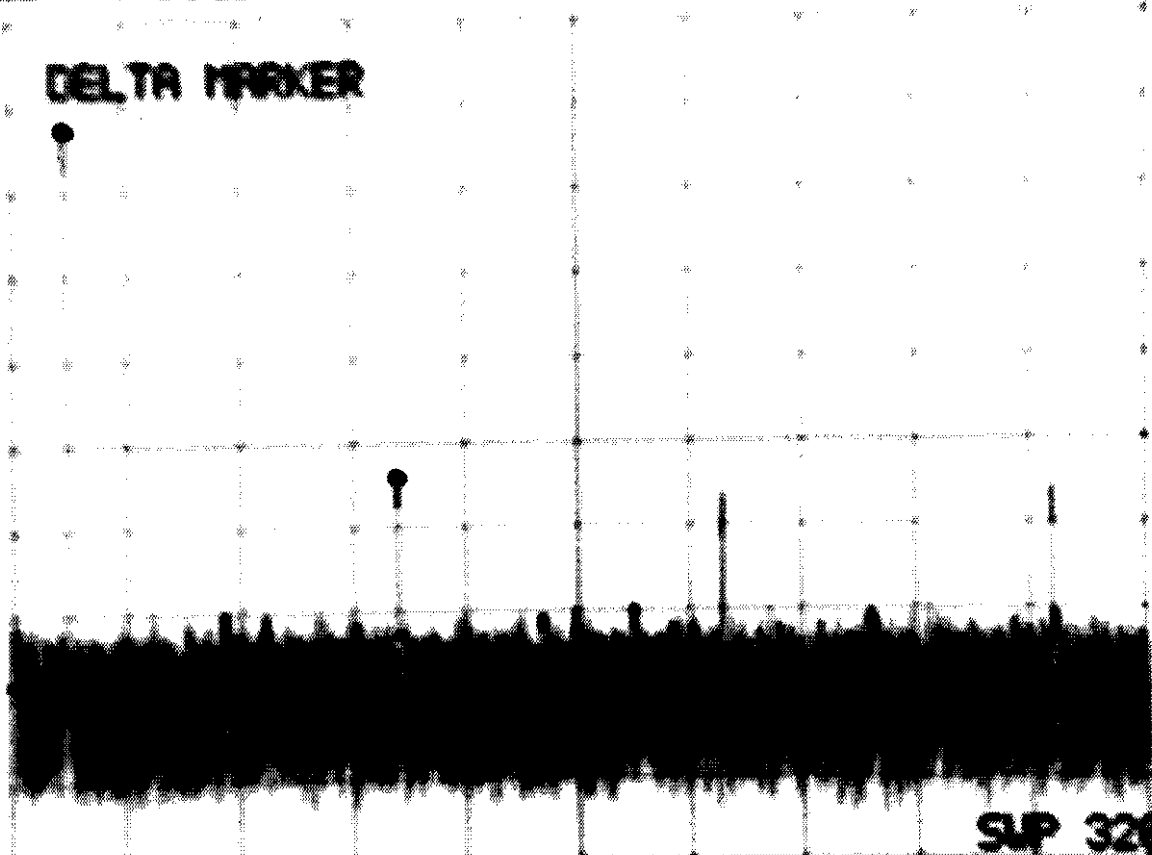


7

REF -10.0dBm 0-2G
10dB/RT10dB RBW100kHz USB30kHz

ΔNR 46.5MHz
-41.30dB

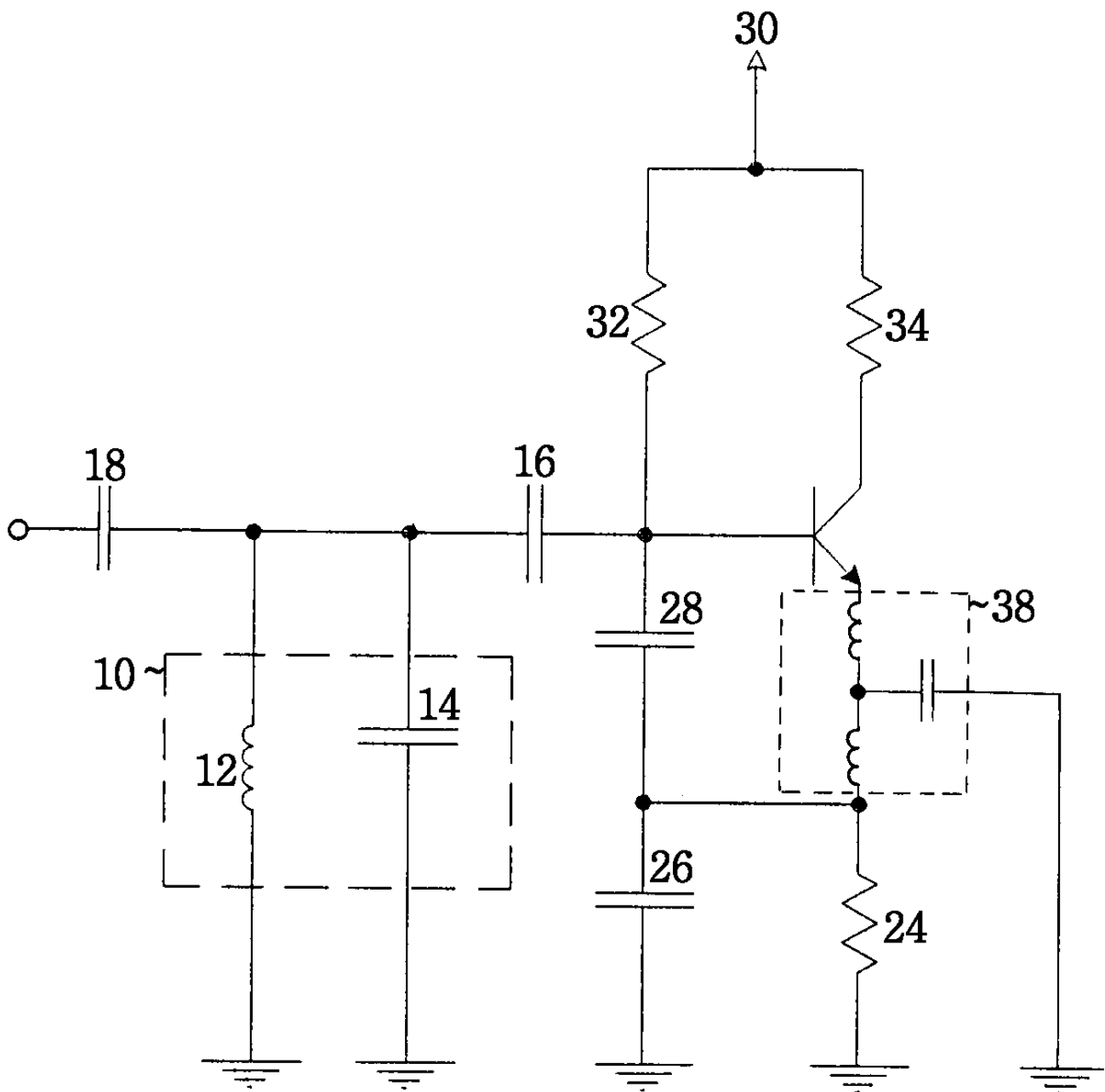
DELTA MARKER



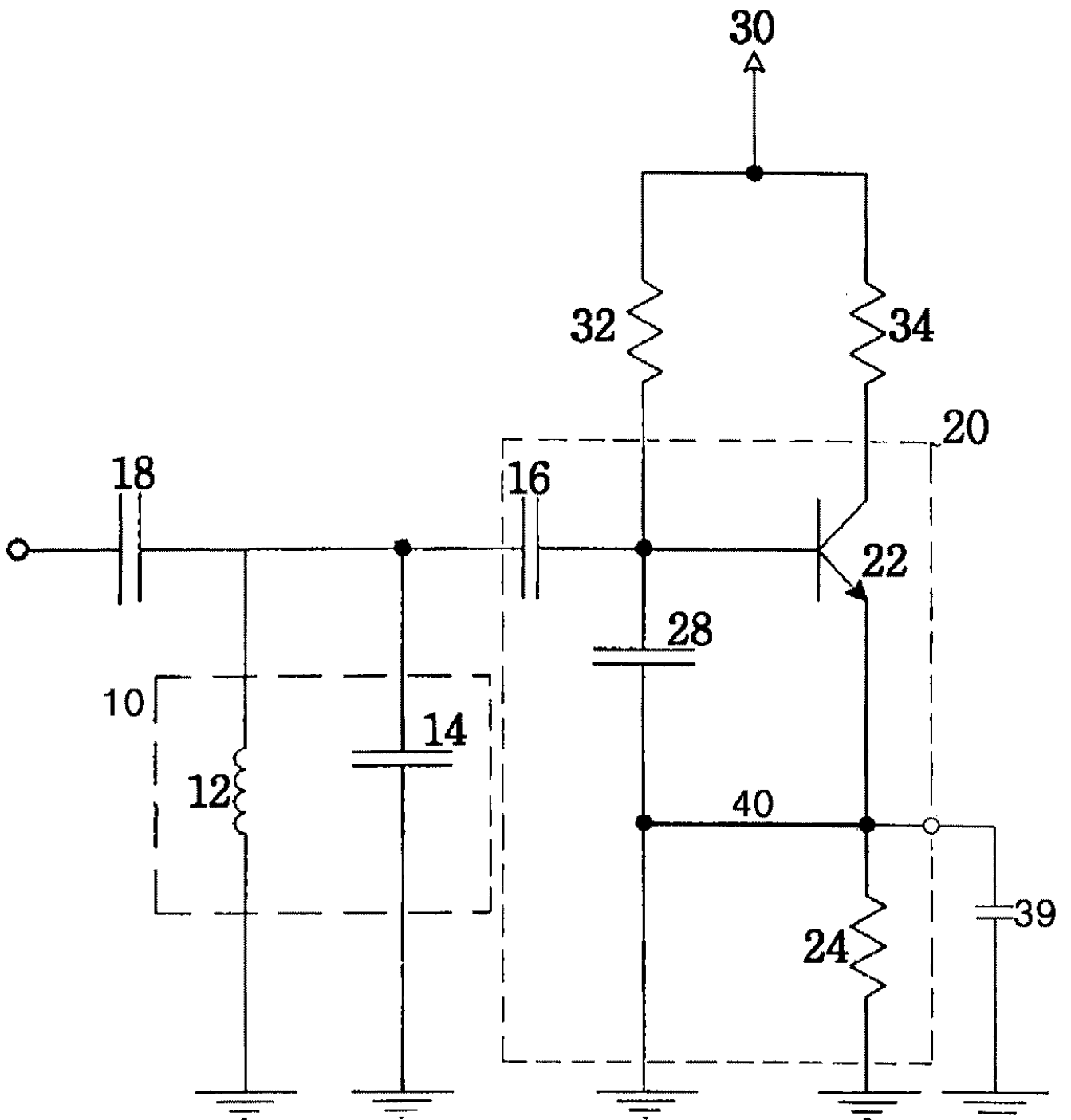
START 40.0MHz

SUP 320ns
STOP 200.0MHz

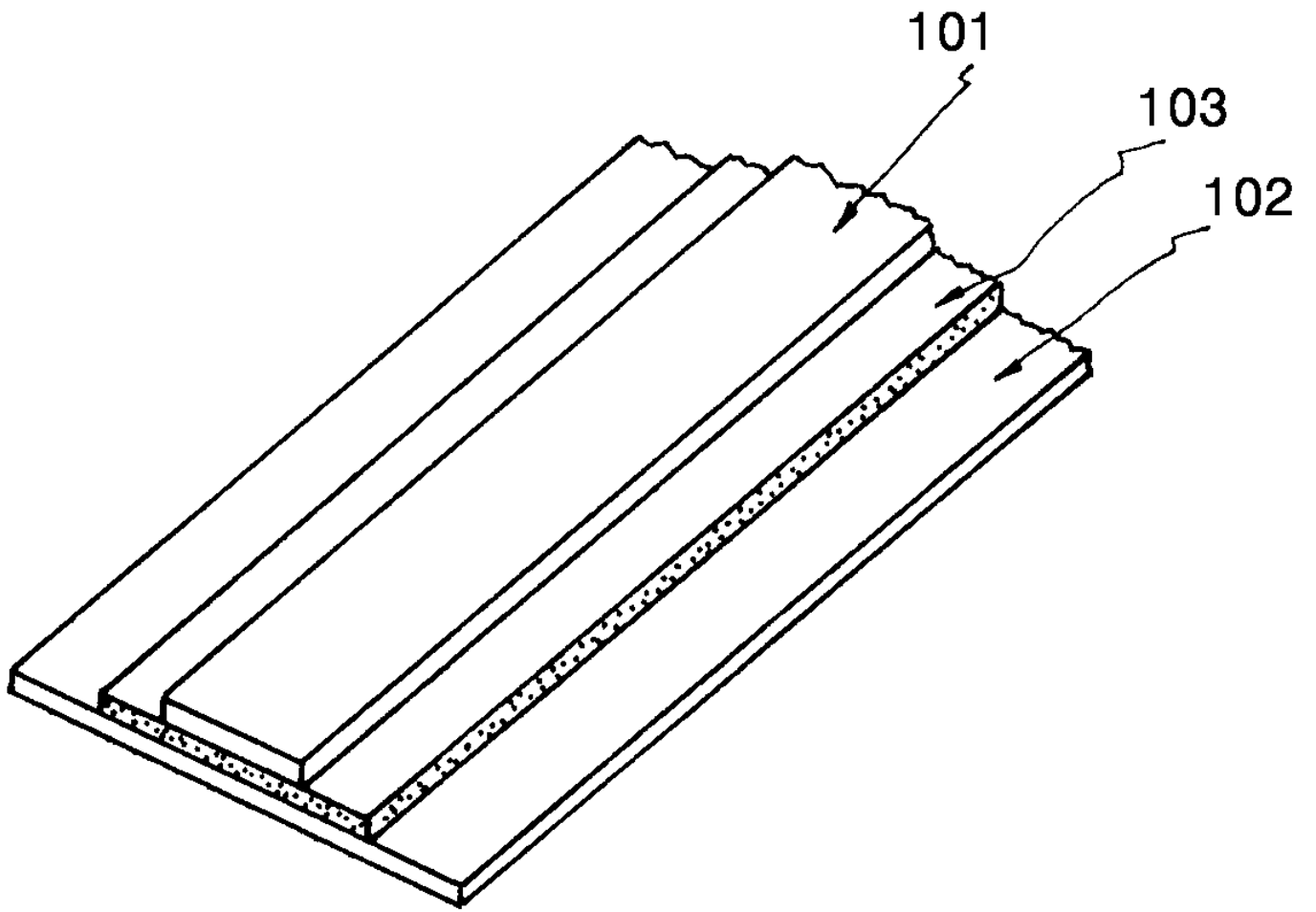
8



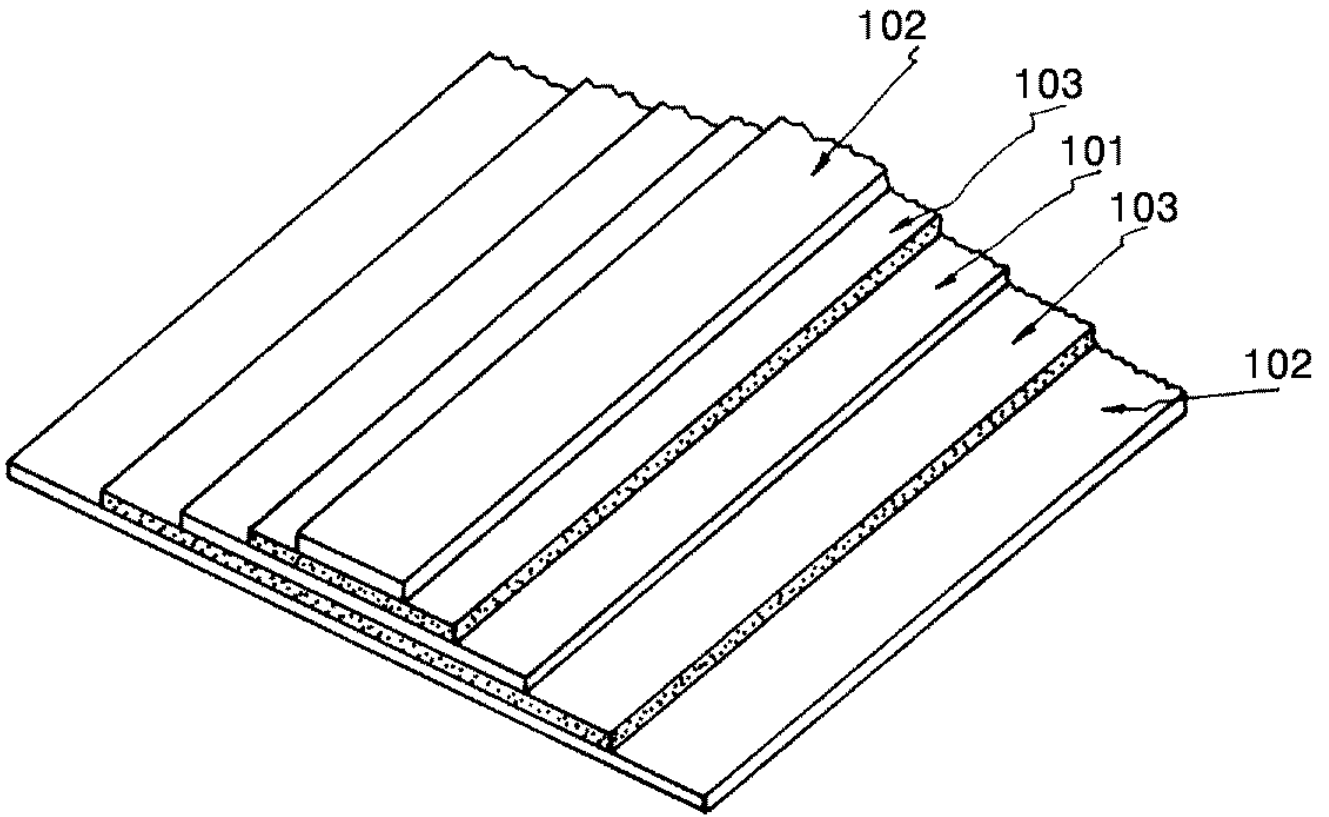
9



10a



10b



11

