

(19) (KR)
(12) (B1)

(21) 10-2001-0005920 (65) 2002-0065745
(22) 2001 02 07 (43) 2002 08 14

(73) 20 LG

(72) 904 1301

593-96

(74)

(54) T V V S B

VSB (VSB), , A/D SAW DTV
,
,
가
가 가 , , , DTV

3

, VSB

1

DTV

2 DTV
3 DTV

301 : 302 : SAW
303 : A/D 304 :
305 : 306 :
307 : 308 :
400 : 401 :
402,502 : 403,503 : NCO
500 : 501 :

12) (108) , (108) (TED)(109), (109) (110), (111) , VCXO(1
 DC / (109) VCXO(112) DC A/D (111) (103) (106)
 (110) (111)

1 DTV VSB 가
VSB

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graph LR
    A[VSB 203] --> B[TV 206]
    B --> C[VSB 204]
    C --> D[VSB 205]
    D --> E[A/D 203]
    E --> F[25MHz 202]
    F --> G[SAW 201]
    G --> H[SNR 205]
    H --> I[Resampler 205]

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(205) (209)

, 25MHz

(205)	n (VSB	n=2)	.
,	(205)	(206)	(207)
		(209)	(213)
	(213)		1
	(209)	(207)	
,			
(210),			
		(205)	(211),
			NCO(212)

, 2 VSB (213) (209) 가
(213) . , (213) (209) 가 (209)
DTV 2 (213) (213) 가 . , -
+ (213) (209) 가 (213) (213)

DTV

DTV , (VSB)

A/D , I,Q I,Q I,Q 가

3 , TV , (301), SAW (302), A/D (303),
(304), (305), (306), (307), (308)가
, (305) (400)가 , (307)
(500)가 . ?

, A/D (303) SAW (302) (, 25MHz) (307),
 (308), (400), (304), (500) VSB , (306), VSB

07) A/D (303) (304) I,Q (305)

, (400) (305) (307) .
, (305) (305) (306)

가 (306) 가 (307) 가 (307)
SNR (307) . (500) (307) | (307)

, (500) (307) (502), NCO(503)
, (501), (306) (502) (501)
, (501) (307) (502) (501)
(502) NCO(503) NCO(503) NCO(503)

1





