

(19)  
(12)

(KR)  
(B1)

(51) 。 Int. Cl.7  
G11B 7/004

(45)  
(11)  
(24)

2004 12 04  
10-0459704  
2004 11 24

(21) 10-2002-0012976  
(22) 2002 03 11

(65)  
(43)

10-2003-0073425  
2003 09 19

(73)

416

(72)

9

970-3

914 1501

(74)

:

(54)

2

1  
2  
3 2 PLL  
4 2  
5 4

DVD-R, DVD-RW (pits) (land)  
 LPP(Land Pre-Pit) LPP  
 (groove) (wobble)  
 가 LPP ±90° 가  
 LPP LPP

DVD+R, DVD+RW (wobble)  
 (DVD-R, DVD-RW (LPP) )

(phase locked wobble)  
 ;  
 ;  
 ;  
 ; 가 '1' '0'  
 ;  
 ; DVD-R DVD-RW 가 186  
 50% ; DVD-R DVD-RW 93 (Land Pre-Pit; LPP)  
 ; (groove wobble)  
 ; (phase locked wobble)  
 ;

가 ;  
 ;  
 ; DVD-R DVD-RW (Land Pre-Pit; LPP)  
 ; 가 ;  
 ;  
 ; 가 ; 가 ;  
 ; DVD-R DVD-RW (Land Pre-Pit; LPP)

1  
 1 (pick-up unit)(100), (Adaptive Laser  
 Power Controller;ALPC)(101), (RF-AMP)(102), (103), (104),

(105) (motor amp; drive)(106)  
 (100) (10) (101) (103) 가  
 (100) (102) (100) (103) (102) (104)  
 (103) (102) (105) (103) (102) (104)  
 (11) (101) (103) ( )  
 , DVD-R, DVD-RW LPP )  
 2 (104) / (103) (11) (10)  
 (105) (103) (106) (10) (motor) (drive) (105)  
 (107)  
 2 (wobble)( ) PLL (200),  
 2 (210), (220), (230) (107) (wbclk) ,  
 PLL (200) (jitter) (pwb; PLL wobble)  
 DVD-R/RW 186 , DVD+R/RW 32 가  
 3 PLL (200) 3 PLL (200) (201), wbclk  
 k n pwb (LPF)(202), (202) (203) wbclk n  
 pwb 가 (VCO)(203) (203) (pwb) 가 가  
 RF (204) 가  
 2 DVD-RW (210) 가 DVD-R,  
 DVD-RW , LPP 가 (210) (wbclk)  
 가 (107) (107) (220)  
 (220) (107) 가 (210) (wbclk)  
 1 :0 185) 가 , 1 ( ) 가 186 185 ( )  
 가 93 93 (220)  
 (230) (220) ( )  
 4 2 ECC (220) (400), (410), (420),  
 4 (220) (430) (440) (wbclk)  
 (400) (pwb) (400) (210)  
 (410) 2 (107) '24' 가 24  
 (420) (410) 가  
 (430) (420)가

5 4  
 , 5 (a) (400) (pwb)  
 (b) (rising edge) 가 가  
 (c) (b) (a)  
 (d) (c) (400) (410)  
 (e) (440) 93 93 가 가  
 (f) (420) , (e) 가 가  
 (g) (430) (e)  
 가 가

(57)

1.

(phase locked wobble)

2.

3.

1 DVD-R DVD-RW , 가 186 50%

4.

, DVD-R DVD-RW , (Land Pre-Pit; LPP)

5.

(groove wobble)  
 (phase locked wobble)

6.

5 , n

7.

5 , DVD-R DVD-RW , (Land Pre-Pit; LPP)

8.

가

9.

8

가

가

가

가

10.

8

DVD-R

DVD-RW

(Land Pre-Pit; LPP)





