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(73)

416

(72)

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970-3

914 1501

(74)

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(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'
 ;
 50% , DVD-R DVD-RW 가 186
 , 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
 Power Controller;ALPC)(101), (pick-up unit)(100), (Adaptive Laser (104),
 (RF - AMP)(102), (103),

(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) (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) (107) (210)
 (410) 2 '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)
 (e) (440) 93 (410)
 (f) (420) , (e) 93 가 가
 (g) (430) (e)
 가 가

(57)

1.

(phase locked wobble)

2.

가 ;

'1' , '0'

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)





