

## Test result of the Recording layer

Recording speed \*\*\* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

Best write strategy described in Lead-in area of the disc

	For Groove		For Land
• Peak power (Pp)	<input type="text"/>	mW	<input type="text"/>
• Bias power1 (PB1)	<input type="text"/>	mW	<input type="text"/>
• Bias power2 (PB2)	<input type="text"/>	mW	<input type="text"/>
• Bias power3 (PB3)	<input type="text"/>	mW	<input type="text"/>

- Mode flag of adaptive write pulse control

$T_{MP}$   ns or T/16  
 $T_{LC}$   ns or T/16

☐ case 1 ☐ case 2

$T_{EFP}$   ns or T/16  $T_{FP}$   ns or T/16  
 $T_{SLP}$   ns or T/16  $T_{LP}$   ns or T/16

- Adaptive write control tables

First pulse start time $T_{SFP}$ (ns or T/16)		Mark Length			
		3T	4T	5T	>5T
Leading space length	3T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	4T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	>5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Last pulse end time $T_{ELP}$ (ns or T/16)		Mark Length			
		3T	4T	5T	>5T
Trailing space length	3T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	4T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
	>5T	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

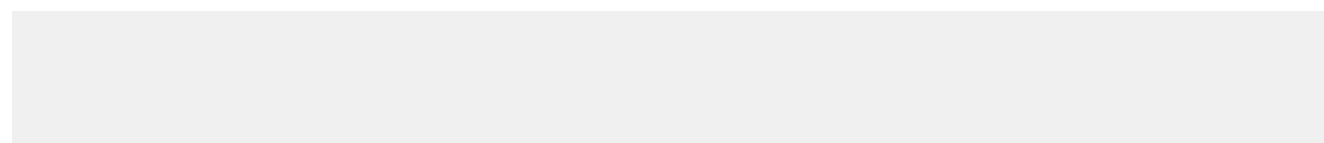
Para-graph**	Items	Measuring points*		Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
2.8.2 a	Jitter	Zone n	G	less than 9.0	%			
			L					
		Zone m	G					
			L					
2.8.2 b	I14 / I14H	Zone n	G	0.40 min.				
			L					
		Zone m	G					
			L					
	I3 / I14	Zone n	G	0.15 min.				
			L					
		Zone m	G					
			L					
	$(I_{14\max} - I_{14\min}) / I_{14\max}$ within one sector	Zone n	G	0.10 max.				
			L					
		Zone m	G					
			L					
	$(I_{14H\max} - I_{14H\min}) / I_{14H\max}$ within one read-out side of a disc	Zone n	G	0.33 max.				
			L					
		Zone m	G					
			L					
	$(I_{14H\max} - I_{14H\min}) / I_{14H\max}$ within one track	Zone n	G	0.15 max.				
			L					
		Zone m	G					
			L					
	$[ (I_{14H} + I_{14L}) - (I_{3H} + I_{3L}) ] / 2(I_{14H} - I_{14L})$	Zone n	G	-0.05 to 0.15				
			L					
		Zone m	G					
			L					

\*: Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm (Zone n/m)	Z0/Z34	Z0/Z34	Z0/Z34	Z0/Z34	Z17/Z34	- / Z34
8 cm (Zone n/m)	Z0/Z13	Z0/Z13	Z0/Z13	Z0/Z13	- /Z13	- /-

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

\*\*\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.



## Test result of the Signal from groove and land in the written recording field

Recording speed \*\*\* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

Para-graph**	Items	Zone*	Specification	Unit	Measurement value		Judgment (Lab use)
					Applicant	Lab.	
2.7.2.1	(I <sub>1</sub> - I <sub>2</sub> )pp / (I <sub>1</sub> + I <sub>2</sub> )a Written Recording field	Zone n	0.35 to 1.05				
		Zone m					
2.7.2.2	[ (I <sub>1</sub> - I <sub>2</sub> ) / (I <sub>1</sub> + I <sub>2</sub> ) ]pp Written Recording field	Zone n	1.10 to 1.65				
		Zone m					
	{ [ (I <sub>1</sub> - I <sub>2</sub> ) / (I <sub>1</sub> + I <sub>2</sub> ) ]pp }min / { [ (I <sub>1</sub> - I <sub>2</sub> ) / (I <sub>1</sub> + I <sub>2</sub> ) ]pp }max in the written Recording fields	Zone n	0.70 min.				
		Zone m					
2.7.2.5b	SNR of the wobble signal on written groove track	Zone n	34 min.	dB			
		Zone m					
	SNR of the wobble signal on written land track	Zone n	34 min.	dB			
		Zone m					

\*: Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm (Zone n/m)	Z0/Z34	Z0/Z34	Z0/Z34	Z0/Z34	Z17/Z34	- / Z34
8 cm (Zone n/m)	Z0/Z13	Z0/Z13	Z0/Z13	Z0/Z13	- /Z13	- /-

\*\*: Refer to DVD Specifications for Rewritable Disc Part 1: Ver. 2.2.

\*\*\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

## Test result of the Power margin

Recording speed \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

(Groove)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp×1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp×0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

(Land)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp × 1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp × 0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

(Measuring Item : Deviation between leading edge jitter and trailing edge jitter)

Para-graph	Test Condition	G/L **	Specification	Unit	Leading edge jitter–Trailing edge jitter		Judgment (Lab use)
					Applicant	Lab.	
	10 times overwrite with Condition A	G	Recommended Specification – 1.0 to 1.0	%			
		L					
	10 times overwrite with Condition B	G					
		L					
	10 times overwrite with Condition C	G					
		L					

(Measuring Item : Asymmetry)

Para-graph	Test Condition	G/L **	Specification	Unit	Leading edge jitter–Trailing edge jitter		Judgment (Lab use)
					Applicant	Lab.	
	10 times overwrite with Condition A	G	Recommended Specification – 0.05 to 0.15				
		L					
	10 times overwrite with Condition B	G					
		L					
	10 times overwrite with Condition C	G					
		L					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\* : Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm	Z0	Z0	Z0	Z0	Z17	Z34
8 cm	Z0	Z0	Z0	Z0	Z13	-

## Test result of the Cross Power Over-write

Recording speed \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

(Groove)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp×1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp×0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

(Land)

Condition A:

Peak power Pp  mW Bias power PB1  mW PB2  mW PB3  mW

Condition B:

Pp×1.05  mW PB1×1.05  mW PB2×1.05  mW PB3×1.05  mW

Condition C:

Pp×0.90  mW PB1×0.90  mW PB2×0.90  mW PB3×0.90  mW

## Zone n\*\*

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	1	Condition A	G	Recommended Specification 12.0 max.	%			
			L					
	2	Condition A	G					
			L					
	3	Condition A	G					
			L					
	4	Condition B	G					
			L					
	5	Condition A	G					
			L					
	6	Condition A	G					
			L					
	7	Condition A	G					
			L					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\*: Measuring zone:

Recording speed	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
Disc size						
12 cm (Zone n/m)	Z0/Z34	Z0/Z34	Z0/Z34	Z0/Z34	Z17/Z34	- / Z34
8 cm (Zone n/m)	Z0/Z13	Z0/Z13	Z0/Z13	Z0/Z13	- /Z13	- /-

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	8	Condition C	G	Recommended Specification 12.0 max.	%			
			L					
	9	Condition A	G					
			L					
	10	Condition A	G					
			L					
	11	Condition A	G					
			L					
	12	Condition B	G					
			L					
	13	Condition C	G					
			L					
	14	Condition A	G					
			L					
	15	Condition A	G					
			L					
	16	Condition A	G					
			L					
	17	Condition C	G					
			L					
	18	Condition B	G					
			L					
	19	Condition A	G					
			L					
	20	Condition A	G					
			L					
	21	Condition A	G					
			L					

## Zone m\*\*

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	1	Condition A	G	Recommended Specification 12.0 max.	%			
			L					
	2	Condition A	G					
			L					
	3	Condition A	G					
			L					
	4	Condition B	G					
			L					
	5	Condition A	G					
			L					
	6	Condition A	G					
			L					
	7	Condition A	G					
			L					
	8	Condition C	G					
			L					
	9	Condition A	G					
			L					
	10	Condition A	G					
			L					
	11	Condition A	G					
			L					
	12	Condition B	G					
			L					
	13	Condition C	G					
			L					
	14	Condition A	G					
			L					
	15	Condition A	G					
			L					

Para-graph	Overwrite Cycles	Write Power Condition (Peak/ Bias power)	G/L	Specification	Unit	Measurement value		Judgment (Lab use)
						Applicant	Lab.	
	16	Condition A	G	Recommended Specification 12.0 max.	%			
			L					
	17	Condition C	G					
			L					
	18	Condition B	G					
			L					
	19	Condition A	G					
			L					
	20	Condition A	G					
			L					
	21	Condition A	G					
			L					



## Test result of the Cross erasing

Recording speed \* : ☐ 2x ☐ 3x ☐ 5x ☐ 6x ☐ 8x ☐ 12x

(Groove)

Condition A: Peak power (Pp)  mW

Bias power1 (PB1)  mW

Bias power2 (PB2)  mW

Bias power3 (PB3)  mW

(Land)

Condition A: Peak power (Pp)  mW

Bias power1 (PB1)  mW

Bias power2 (PB2)  mW

Bias power3 (PB3)  mW

(Track #N = Groove) \*\*

Para-graph	Overwrite cycles of Track #(N+1) and Track #(N-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	10 times	9.0 max.	%			
	10000 times	Recommended Specification 12.0 max.				
	50000 times					
	100000 times					

(Track #N = Land) \*\*

Para-graph	Overwrite cycles of Track #(N+1) and Track #(N-1)	Specification	Unit	Measurement value		Judgment (Lab use)
				Applicant	Lab.	
	10 times	9.0 max.	%			
	10000 times	Recommended Specification 12.0 max.				
	50000 times					
	100000 times					

\*: This form is common for each recording speed. Check on column to identify recording speed to test and copy form if you need every test for the recording speed.

\*\*: Measuring zone:

Recording speed Disc size	2x-speed	3x-speed	5x-speed	6x-speed	8x-speed	12x-speed
12 cm	Z0	Z0	Z0	Z0	Z17	Z34
8 cm	Z0	Z0	Z0	Z0	Z13	-