

TEST CD

For Checking CD Players and CD Drives

TCD-783

1. Purpose of use, Features

TCD-783 is a Test Disc using Mini CD (8cm Single CD) designed for measurement of Audio Characteristics and various kinds of evaluation and adjustment of HF Signal, Eye Pattern, Block Error rate, Servo adjustment and Access Check etc., of CD Players and Drives etc..

As for Audio characteristics, measurement of Frequency Response, Dynamic Range, S/N Ratio, Channel Separation, De-Emphasis and Tone Control are available to confirm.

Since Eccentricity, Tilt, Birefringence, Modulation, Jitter and Block error rate are strictly managed than CD Specifications, stable evaluation and adjustment are available.

2. Specifications

- Disc type : CD-DA
- Recorded time : 20min. 2sec.
- Physical Characteristics: Complies with Compact Disc Digital Audio System.

However, following parameters are managed as described specifications.

Parameters	Managed Specifications	CD Specifications
Outer diameter	80 ± 0.2 mm	80 ± 0.2 mm
Center hole diameter	15.0 +0.1/ -0 mm	15.0 +0.1/ -0 mm
Substrate thickness	1.2 ± 0.03 mm	1.2 ± 0.1 mm
Scanning velocity	1.25 m/s (for reference)	1.2 ~ 1.4 m/s
Track pitch	1.6 μ m (for reference)	1.6 ± 0.1 μ m
Eccentricity	≤ 40 μ m(0-p)	≤ 70 μ m(0-p)
Radial tilt (β angle)	± 0.2° (ave.) 以下 at R33mm	± 0.6° 以下
Birefringence	≤ ± 80 nm	≤ ± 100 nm
Reflectivity	≤ 75%	≤ 70%
Modulation(I11/I11H)	≤ 77%	≤ 60%
Modulation(I3/I11H)	≤ 45%	30 ~ 70%
Asymmetry	-12 ~ -5%	-15 ~ +5%
Jitter (3T Pit)	≤ 25 ns	≤ 35ns
Block error rate	≤ 70 (max.)	≤ 220

3. Content

Track No.	Index	Time		Contents	Channel	Level dB	Emphasis	Purpose
		min	sec					
1	1	0	05	Minuetto	L & R	-	ON	Access
2	1	0	56	1kHz Sine wave	L & R	0	OFF	Reference level
3	1	0	56	17Hz Sine wave	L & R	0	OFF	Frequency response THD vs. frequency
4	1	0	56	127Hz Sine wave	L & R	0	OFF	
5	1	0	56	997Hz Sine wave	L & R	0	OFF	
6	1	0	56	10007Hz Sine wave	L & R	0	OFF	
7	1	0	56	17989Hz Sine wave	L & R	0	OFF	
8	1	0	56	19997Hz Sine wave	L & R	0	OFF	
9	1	0	56	Infinity 0	L & R	-∞	OFF	S/N
10	1	0	56	1kHz Sine wave	L	0	OFF	Channel separation
11	1	0	56	10kHz Sine wave	L	0	OFF	
12	1	0	56	1kHz Sine wave	R	0	OFF	
13	1	0	56	10kHz Sine wave	R	0	OFF	De-emphasis error
14	1	0	26	1kHz Sine wave	L & R	-20	ON	
15	1	0	56	4kHz Sine wave	L & R	-20	ON	
16	1	0	56	16kHz Sine wave	L & R	-20	ON	Tone control
17	1	0	56	100Hz Sine wave	L & R	-20	OFF	
18	1	0	56	1kHz Sine wave	L & R	-20	OFF	Frequency response
19	1	0	56	10kHz Sine wave	L & R	-20	OFF	Dynamic range
20	1	0	56	997Hz Sine wave	L & R	-59.94	OFF	
21	1	0	56	997Hz Sine wave	L & R	-80.77	OFF	
22	1	0	05	Overture Miniature	L & R	-	OFF	Access
23	1	0	20	Marche	L & R	-	OFF	General
TOTAL TIME (Including pause time) 20min 02sec								

note) No pause time on track No.22 to 23.

Values in this specification sheet are measured by the equipments ALMEDIO-owned.

<Proper handling of the disc>
 Do not write on the surface with a pen and others, nor put a sticker on it.
 Do not expose the disc to direct sunlight, nor leave it in the place of high temperature and high humidity.
 After playing, store the disc in its own case.

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