

TEST CD

For Checking CD Players and CD Drives

TCD-782

1. Purpose of use, Features

TCD-782 is a Test Disc designed for various kinds of evaluation, measurement and adjustment, i.e., Audio Characteristics, HF Signal, Servo adjustment, Access Check and Block Error rate 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.

As for measurement of HF Signal, Amplitude, Eye Pattern and Servo signal are available to confirm.

On track No. 21, it is recorded Index from 1 to 20. It is available to confirm Index Search Playback.

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

2. Specifications

- Disc type : CD-DA
- Recorded time : 65min. 29sec.
- Physical Characteristics: Complies with Compact Disc Digital Audio System.

However, following parameters are managed as described specifications.

Parameters	Managed Specifications	CD Specifications
Outer diameter	120 ± 0.3 mm	120 ± 0.3 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 μm (for reference)	1.6 ± 0.1 μm
Eccentricity	≤ 40 μm(0-p)	≤ 70 μm(0-p)
Radial tilt (β angle)	≤ ± 0.1° (ave.) at R38mm	≤ ± 0.6°
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	3	32	Minuetto	L & R	-	ON	General
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	19997Hz Sine wave	L & R	0	OFF	
8	1	0	56	Infinity 0	L & R	-∞	OFF	S/N
9	1	0	56	1kHz Sine wave	L	0	OFF	Channel separation
10	1	0	56	10kHz Sine wave	L	0	OFF	
11	1	0	56	1kHz Sine wave	R	0	OFF	
12	1	0	56	10kHz Sine wave	R	0	OFF	
13	1	0	56	4kHz Sine wave	L & R	-20	ON	De-emphasis error
14	1	0	56	16kHz Sine wave	L & R	-20	ON	
15	1	0	56	100Hz Sine wave	L & R	-20	OFF	Tone control
16	1	0	56	1kHz Sine wave	L & R	-20	OFF	Frequency response
17	1	0	56	10kHz Sine wave	L & R	-20	OFF	
18	1	0	56	997Hz Sine wave	L & R	-59.94	OFF	Dynamic range
19	1	3	31	Clair de Lune	L & R	-	ON	General
20	1	3	19	Ouverture Miniature	L & R	-	OFF	General
21	1~20	8	09	Maiden's Prayer and Fantaisie-Impromptu	L & R	-	ON	Index
22	1	27	13	Blank	L & R	-	OFF	Blank for long time access
23	1	2	27	Marche	L & R	-	OFF	Long time access
TOTAL TIME (Including pause time) 65min 29sec								

note) No pause time on track No.23.

Values in this sheet are measured by the equipments ALMEDIO-owned. Appearance and specifications are subject to change without notice.

<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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