

Reliabilities; Error Rate; Mtbf; Mtrr - Toshiba R6472 - DVD#177;RW Drive - IDE Specifications

Dvd writable drive

1

2

3

4

Table Of Contents

5

6

7

8

9

10

11

12

13

14

15

16

17

18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35

•

[Table of Contents](#)

•

Bookmarks



3.5. Reliabilities

3.5.1. Error Rate

(1) Hard Read Error Rate (Byte Error Rate) -----Allowing 5 Retries (default)

(2) Seek Error Rate -----Allowing 10 Retries (default)

3.5.2. MTBF

Assumptions: Power On Hours

3.5.3. MTTR

3.5.4. Drive Lifetime

(1) Drawer Load/Release

(2) Interface connector Attach/Detach

Notes:

*1: On the same assumptions of MTBF.

4. Configuration

See Figure 6 for details.

4.1. Electrical Circuits

(1)

Drawer Release Switch and Release Detection Switch

(2)

Optical Pickup Servo Drive Circuit

(3)

Feed Motor Drive Circuit

(4)

Laser Diode Control Circuit

(5)

8-16 Modulated data Demodulator, Error Correction Circuit and CSS Authenticator (DVD)

(6)

EFM Demodulator, Error Correction Circuit and DA converter (CD)

(7)

IDE/ATAPI Control and CD-ROM Error Correction Circuit and Copy Protect Circuit (DVD)

(8)

BCA Decoding Circuit

(9)

CIRC Encoder

(10) EFM Encoder

(11) 8-16 Modulated data Encoder

(12) ATIP Demodulator

(13) LPP Demodulator

(14) Disc Motor Control Circuit

4.2. Optical Pickup

4.3. Spindle Motor

4.4. Feed Motor

DVD:

CD:

On/Off Cycles

Number of Access

Operating Duty Cycle (Read)

Operating Duty Cycle (Write)

10

Max

-15

Mode 1:10

-12

Mode 2:10

-6

10

Max

60,000 h

5,436 h/year

313 cycles/year

600,000 accesses/year

20 % of Power On Time (Reading/Seeking)

2 % of Power On Time (Writing/Seeking)

0.5 h

*1

15,000 h

or 5 years (the earlier one)

10,000 times or more

500 times or more

1-Lens and 2-Laser System

Brushless DC Motor

Stepping Motor

12 / 28

Max

Max

TS-L532A (SD-R6472) Rev.1.1

[Table of Contents](#)

[Previous Page](#)
[Next Page](#)

1
...
15
16
17
18
19
20
21
22

Related Manuals for Toshiba R6472 - DVD±RW Drive - IDE

[DVD Drive Toshiba SD-R6472 User Manual](#)

Dvd rewriteable mobile drive (14 pages)

[DVD Drive Toshiba PA3761U-1DV2 - External USB 2.0 DVD Super Multi Drive Product Specifications](#)

Specifications (1 page)

[DVD Drive Toshiba SD-M1612 User Manual](#)

Dvd-rom drive (17 pages)

[DVD Drive Toshiba SD-C2732 User Manual](#)

Dvd-rom mobile drive (12 pages)

[DVD Drive Toshiba SD-M1712 User Manual](#)

Dvd-rom drive (16 pages)

[DVD Drive Toshiba SD-C2612 User Manual](#)

Dvd-rom mobile drive (12 pages)

[DVD Drive Toshiba SD-R2002 User Manual](#)

Cd-rw/dvd-rom combination mobile drive (12 pages)

[DVD Drive Toshiba SD-R1312 User Manual](#)

Cd-rw/dvd-rom combo drive (16 pages)

[DVD Drive Toshiba SD-C2512 User Manual](#)

Dvd-rom mobile drive (12 pages)

[DVD Drive Toshiba PA3454U-1DV2 - External USB 2.0 DVD Super Multi Drive User Manual](#)

External dvd supermulti drive (65 pages)

[DVD Drive Toshiba PA3352 1CD2 Series User Manual](#)

External cd-rw/dvd-rom drive (32 pages)

[DVD Drive Toshiba SD-R6112 User Manual](#)

Dvd rewriteable mobile drive (13 pages)

[DVD Drive Toshiba SD-R6112 Product Specification](#)

Dvd-r/-rw drive (34 pages)

[DVD Drive Toshiba H802A - SD - Disk Drive Features Manual](#)

Half height hd dvd-rom drive (1 page)

[DVD Drive Toshiba SD-M1502 User Manual](#)

Sd-m1502 dvd-rom drive user manual (16 pages)

[DVD Drive Toshiba SD-M1212 - DVD-ROM Drive - IDE Specifications](#)

Dvd-rom drive (35 pages)

Related Content for Toshiba R6472 - DVD±RW Drive - IDE

[SD-R6112 Reliabilities](#)

Toshiba SD-R6112

This manual is also suitable for:

[Sd-r6472](#)