

COMPACT
disc



24x CD-ROM

24x-Speed Slim CD-ROM DRIVE

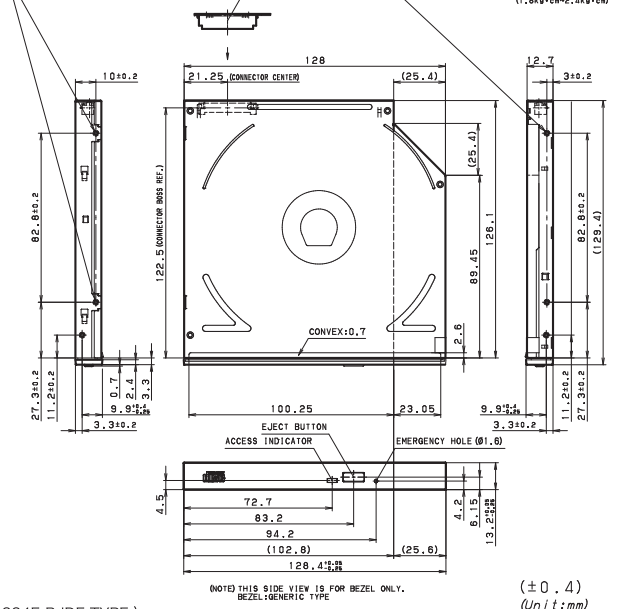
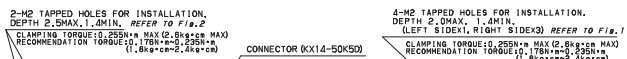
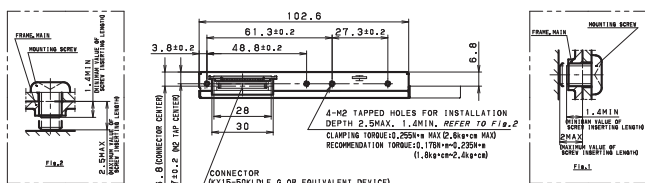
CD-224E-R (IDE)

CD-224S-R (SATA)

- Standard half inch design
- Horizontal and vertical mounting for most system configurations

	CD-224E-R	CD-224S-R
Read speed	CD-ROM 24x (CAV) CD-R/RW 24x (CAV) CD-DA (DAE) 20x (CAV) Play Audio *1 4x (CLV) Video CD *1 20x (CAV)	
Disc Diameter	12cm, 8cm	
Interface	ATA/ATAPI (IDE)	Serial ATA (SATA)
Data Transfer Rate	Programmed I/O (PIO) 16.7MB/s max. (PIO mode 4) Burst DMA 16.7MB/s max. (Multi Word DMA mode 2) Burst Ultra DMA 33.3MB/s max. (Ultra DMA mode 2)	
Average Random Access Time	110ms typ. Average (CD-ROM, 24x)	
Data Buffer	256KB	
Loading Mechanism	Drawer Type	
Environment Condition	Ambient Temperatures Operating : 5 to 55°C Relative Humidities Operating : 8 to 80% (non-condensing) *2	
Power Requirements	DC+5V ±5%	
Current Consumption	Standby/Sleep ; 20mA (Average current max) During starting/seek ; 1200mA (Peak current max)	
MTBF	60,000POH (10% duty)	
Safety Standard	Approved by UL, CSA, TÜV CE and BSMI	
Dimensions	128.0W X 12.7H X 129.4D (mm)	
Mass (Weight)	157g or less	
RoHS Directive	Complied	

Remarks
Please check the specification sheets for detailed conditions and other information.
*1 Playback mode
*2 The maximum wet-bulb temp. is 29.4°C or less



(CD-224E-R IDE TYPE)

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