# **Epson SMD-340 1.44 MB Floppy Drive**

#### **Performance**

Track density 135 tpi
Disk rotation speed 300 rpm
Tracks per diskette 160
Number of heads 2
Recording method MFM

### Recording density:

High density 17,434 bpi Standard density 8717 bpi

### Data transfer rate:

High density 500 Kbits/sec Standard density 250 Kbits/sec

### Seek time:

Track-to-track 3 ms
Average 100 ms
Latency 100 ms
Motor start time 500 ms

### **Electrical Requirements**

Operating voltage 5 VDC 10% Ripple 0.1 V (maximum)

### Current load at 5.5 VDC:

Seeking 0.9 A
Spindle motor running 0.85 A
Power consumption 3.5 W

# Size and Weight

Height 25.4 mm (11.0 inches)
Width 101.6 mm (4.0 inches)
Depth 150.0 mm (5.91 inches)
Weight 395 g (13.92 oz)

### **Environmental Limits**

# Temperature range:

Operating 4 to 45C (40 to 113F)
Nonoperating -20 to 65C (-4 to 139F)

### Relative humidity:

Operating 20% to 80% (noncondensing) Nonoperating 10% to 90% (noncondensing)

#### Vibration:

Operating 0.6 G Nonoperating 3 G

### Shock:

Operating 5 G Nonoperating 60 G

# Reliability

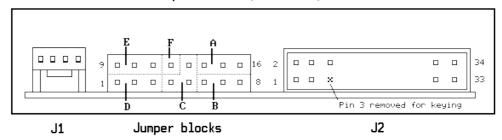
MTBF 10,000 POH

### Error rate:

Soft 10E-9 per bit 10E-12 per bit Seek 10E-6 per seek

# **Jumpers**

# Top of drive (rear view)



### Jumper block A

14 - 15*	Drive selected by DS0
15 - 16	Drive selected by DS1

### Jumper block B

6 – 7	Drive selected by DS2
7 – 8	Drive selected by DS3

# Jumper block C

4 - 5*	Mode switched internally
5 - 13	Mode switched by HDI inp.

<sup>\*</sup> indicates factory default setting

# Jumper block D

1 - 2	2M mode set by HDI inp.
2 - 3*	2M mode set by (HDI) inp.

### Jumper block E

9	Groundi ng	
10 - 11	Test terminals	

# Jumper block F

12	Test terminal

# Mounting

The drive is NOT designed for upside-down mounting.

# **Connectors and Pinouts**

Pin	Signal	Pin	Signal
1	Not connected	2	High density in
3	Pin removed	4	Not connected
5	Not connected	6	Drive select 3
7	+5 VDC	8	Index
9	+5 VDC	10	Drive select 0
11	+5 VDC	12	Drive select 1
13	Signal ground	14	Drive select 2
15	Signal ground	16	Motor on
17	Signal ground	18	Direction
19	Signal ground	20	Step
21	Signal ground	22	Write data
23	Signal ground	24	Write gate
25	Signal ground	26	Track 00
27	Signal ground	28	Write protect
29	Signal ground	30	Read data
31	Signal ground	32	Side select
33	Signal ground	34	Disk change