

## M.2 (S80) 3IE7

### HIGHLIGHT FEATURES

- Up to 100K P/E cycle, extending the lifespan by 33x
- Equipped with 112-layer 3D TLC NAND Flash
- Utilizes Ultra iSLC Technology
- Supports temperatures -40°C to 85°C
- 5-year warranty

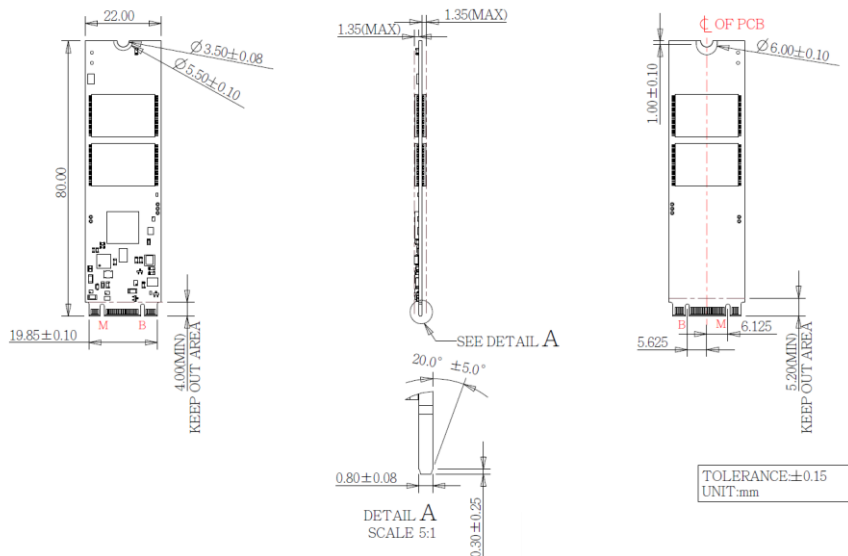


### SPECIFICATIONS

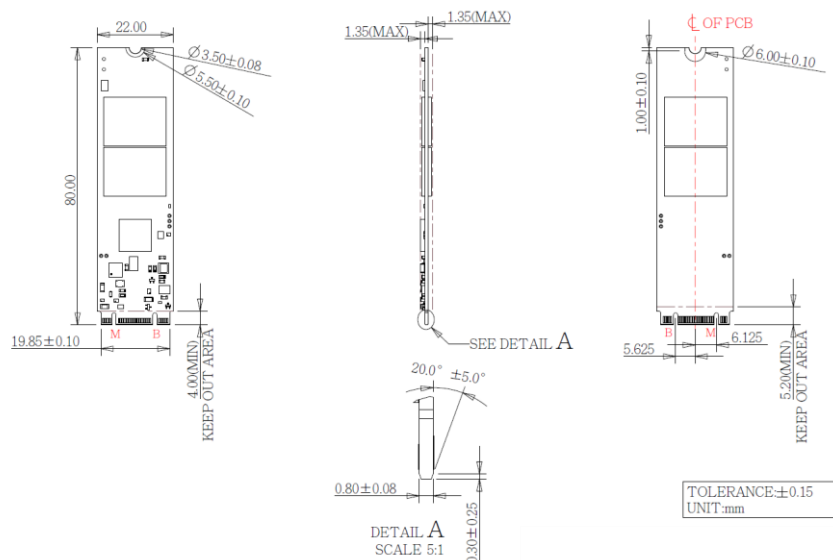
|  |                   |
|--|-------------------|
| <b>Model Name</b>                      | M.2 (S80) 3IE7    |
| <b>Flash Type</b>                      | iSLC (3D TLC)     |
| <b>Interface</b>                       | SATA III 6.0 Gb/s |
| <b>Form Factor</b>                     | M.2 2280 B+M Key  |
| <b>Capacity</b>                        | 20GB ~ 640GB      |
| <b>Sequential R / W (MB/sec, max.)</b> | 560 / 500         |
| <b>P/E Cycle</b>                       | 30,000 / 100,000  |
| <b>TBW (Max.)</b>                      | 40,000            |
| <b>Storage Temperature</b>             | -40°C ~ 85°C      |
| <b>Max. Power Consumption</b>          | 1.6W              |
| <b>Max. Channels</b>                   | 4                 |
| <b>External DRAM Buffer</b>            | N                 |
| <b>H/W Write Protect</b>               | Y (Optional)      |
| <b>S.M.A.R.T.</b>                      | Y                 |
| <b>AES</b>                             | Y (Optional)      |
| <b>TCG Opal</b>                        | N                 |
| <b>Dimension (W x L x H/mm)</b>        | 22.0 x 80.0 x 3.5 |
| <b>Vibration</b>                       | 20G@[7 ~ 2000Hz]  |
| <b>Shock</b>                           | 1500G@0.5ms       |
| <b>MTBF</b>                            | >3 million hours  |
| <b>Warranty</b>                        | 5 Years           |

## DIAGRAM

## TSOP



## BGA



## ORDER INFO.

| Operating Temperature | Standard Grade (0°C ~ 70°C) | Industrial Grade (-40°C ~ 85°C) |
|-----------------------|-----------------------------|---------------------------------|
| 20GB                  | DHM28-20GDK1EC*DF           | DHM28-20GDK1EW*DF               |
| 40GB                  | DHM28-40GDK1%C*&F           | DHM28-40GDK1%W*&F               |
| 80GB                  | DHM28-80GDK1%C*QF           | DHM28-80GDK1%W*QF               |
| 160GB                 | DHM28-A60DK1%C*QF           | DHM28-A60DK1%W*QF               |
| 320GB                 | DHM28-D2GDK1%CAQF           | DHM28-D2GDK1%WAQF               |
| 640GB                 | DHM28-F4GDK1KCAQF           | DHM28-F4GDK1KWAQF               |

%: E : 64 layers 3D TLC / K : 112 layers 3D TLC

\*: PCB version control

&. S : 1 channel / D : 2 channels / Q : 4 channels

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