

## M.2 (P80) 4TE2

### HIGHLIGHT FEATURES

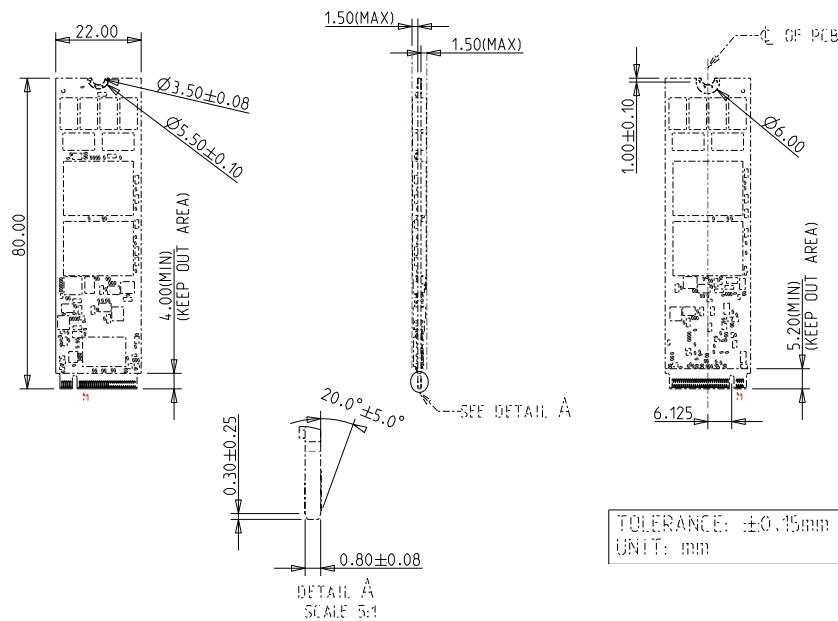
- Equipped with 112-layer 3D TLC NAND Flash
- Excellent Data Transfer Speed
- Dynamic Thermal Management
- PLP (iCell) technology for power loss protection
- Support TCG Opal 2.0 (Optional)

### SPECIFICATIONS

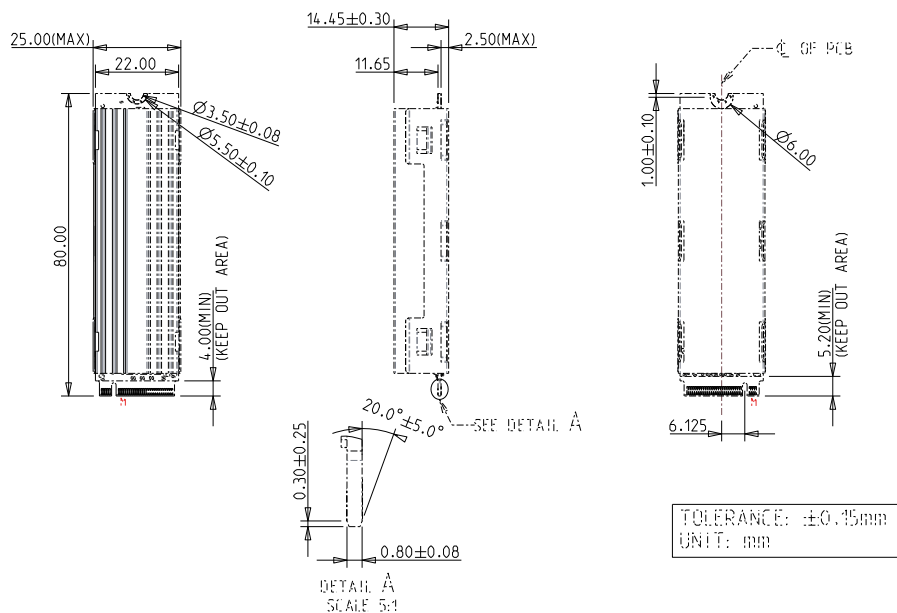
|                                 |                                                                    |
|---------------------------------|--------------------------------------------------------------------|
| Model Name                      | M.2 (P80) 4TE2                                                     |
| Flash Type                      | 3D TLC                                                             |
| Interface                       | PCIe Gen 4 x4                                                      |
| Form Factor                     | M.2 2280 M Key                                                     |
| Capacity                        | 128GB ~ 2TB                                                        |
| Sequential R / W (MB/sec, max.) | 3,550 / 3,300                                                      |
| P/E Cycle                       | 3,000                                                              |
| TBW (Max.)                      | 1,706                                                              |
| Storage Temperature             | -40°C ~ 85°C                                                       |
| Max. Power Consumption          | 5.4W                                                               |
| Max. Channels                   | 4                                                                  |
| External DRAM Buffer            | N                                                                  |
| H/W Write Protect               | Y (Optional)                                                       |
| S.M.A.R.T.                      | Y                                                                  |
| AES                             | Y                                                                  |
| TCG Opal                        | Y                                                                  |
| Dimension (W x L x H/mm)        | S/T : 22.0 x 80.0 x 3.8<br>W/T with heatsink : 25.0 x 80.0 x 14.45 |
| Vibration                       | 20G@[7 ~ 2000Hz]                                                   |
| Shock                           | 1500G@0.5ms                                                        |
| MTBF                            | >3 million hours                                                   |
| Warranty                        | 3 Years                                                            |

# DIAGRAM

## ST



## WT



# ORDER INFO.

| Operating Temperature | Standard Grade (0°C ~ 70°C) | Industrial Grade (-40°C ~ 85°C) |
|-----------------------|-----------------------------|---------------------------------|
| 128GB                 | DEM28-A28DF1KCADF(P)        | DEM28-A28DF1KWADF(P)H           |
| 256GB                 | DEM28-B56DF1KCAQF(P)        | DEM28-B56DF1KWAQF(P)H           |
| 512GB                 | DEM28-C12DF1KCAQF(P)        | DEM28-C12DF1KWAQF(P)H           |
| 1TB                   | DEM28-01TDF1KCAQF(P)        | DEM28-01TDF1KWAQF(P)H           |
| 2TB                   | DEM28-02TDF1KCAQF(P)        | DEM28-02TDF1KWAQF(P)H           |

(P) : PLP (iCell) (Optional)

For TCG OPAL function, the PN Code 10th ~12th will be DF2.