



MakerDisk M.2 2280 NVMe SSD



Datasheet

Rev 1.0
December 2024

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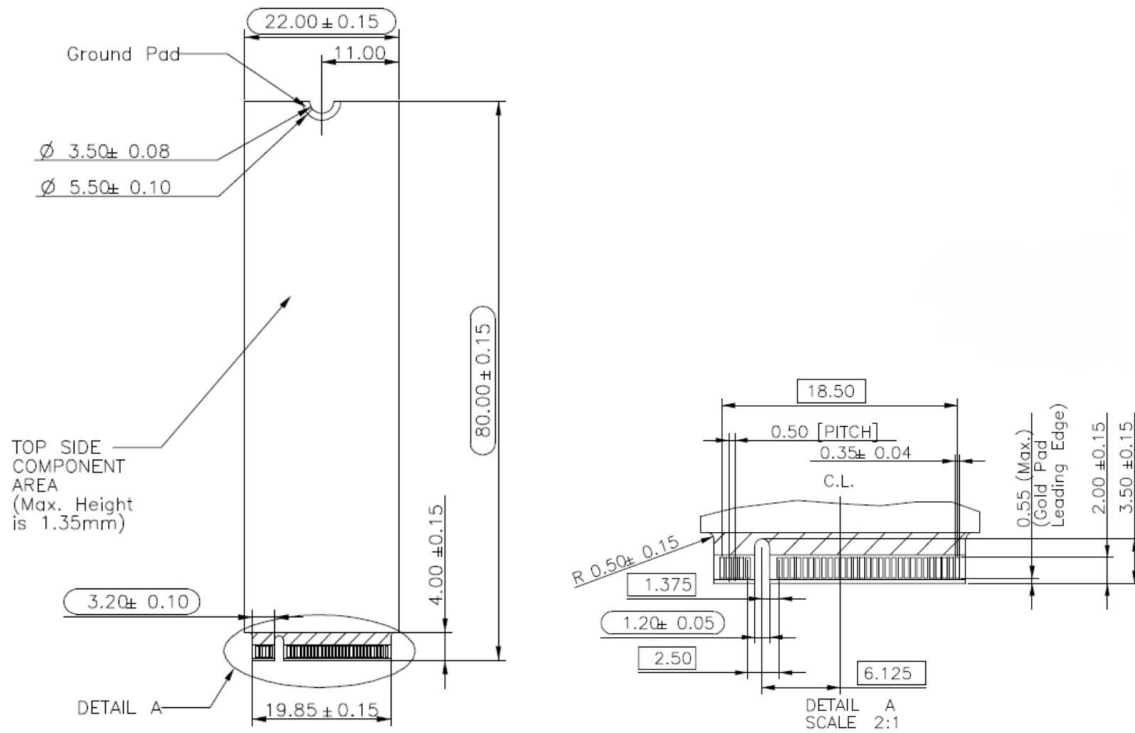
1. Specifications:

No.	Parameters	Specifications			
1	Model	MMR-NV2280-XXX (MakerDisk M.2 NVMe 2280 SSD)			
2	Interface	M.2 M-Key			
3	Dimensions	M.2 2280, L80.00mm*W22.0mm*H2.2mm Error ± 0.05 mm			
4	Capacity	128GB	256GB	512GB	1TB
5	Protocol	PCIe Gen3 x 4 Lane, NVMe 1.3	PCIe Gen3 x 4 Lane, NVMe 1.3	PCIe Gen3 x 4 Lane, NVMe 1.3	PCIe Gen3 x 4 Lane, NVMe 1.3
6	NAND Flash	3D TLC	3D TLC	3D TLC	3D TLC
7	Sequential Read (MB/s)	2100	2300	2400	5000
8	Sequential Write (MB/s)	540	1300	1700	4300
10	4K Random Read (IOPS)	75K (Max)	70K (Max)	210K (Max)	700K (Max)
11	4K Random Write (IOPS)	125K (Max)	260K (Max)	380K (Max)	850K (Max)
12	Input Voltage	DC 3.3V $\pm 5\%$			
13	Power Consumption (Idle)	0.60W (Max)			
14	Power Consumption (Active)	3.65W (Max)			
15	MTBF	1.5 million hours			
16	ECC	LDPC Error Correction/Bad Block Management			
17	Features	Power management/TRIM/S.M.A.R.T./Wear-leveling			
18	Operating Temperature	0°C - 70°C			
19	Storage Temperature	-40°C - 85°C			
20	Operating Humidity	5 - 90%			
21	Certificates	FCC, CE, RoHS, REACH			
22	Made in	Made in Taiwan			

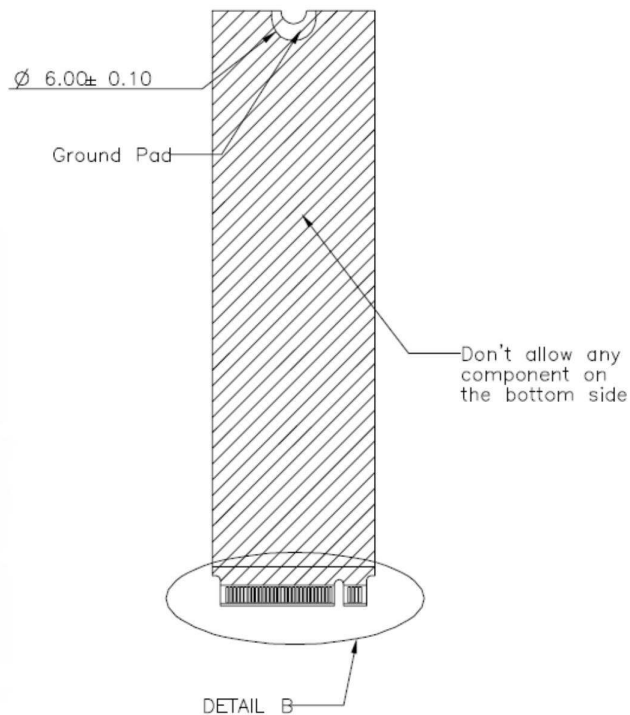
2. Mechanical Dimensions:

MakerDisk M.2 2280 NVMe SSD - M Key - 128GB

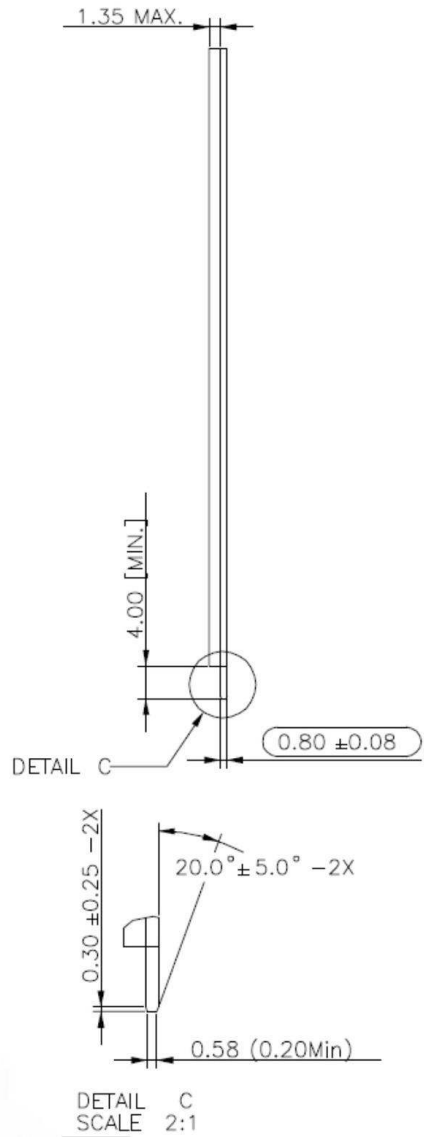
Top view:



Bottom view:



Side view:



Notes :

1. = Max Component Height
2. = No Component
3. = No Component / Signal Vias / Signal Copper / Printing
4. General Tolerance $\pm$ 0.15mm
5. are critical dimensions

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