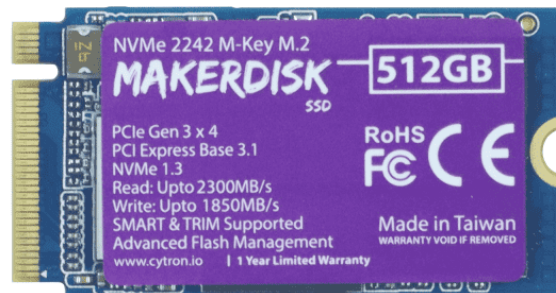




MakerDisk M.2 2242 NVMe SSD



Datasheet

Rev 1.0
April 2024

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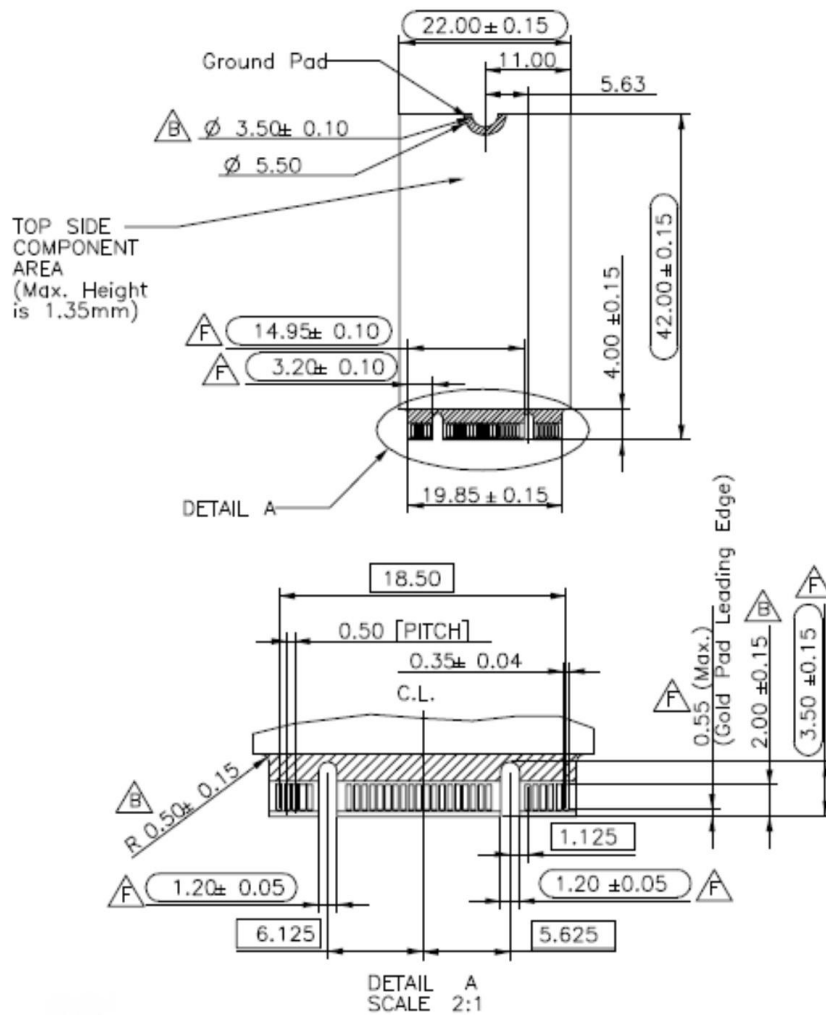
1. Specifications:

No.	Parameters	Specifications		
1	Model	MMR-NV2242-XXX (MakerDisk M.2 NVMe 2242 SSD)		
2	Interface	M.2 M-Key (B+M Key on 128GB SSD)		
3	Dimensions	M.2 2242, L42.00mm*W22.0mm*H2.7mm Error ±0.5mm		
4	Capacity	128GB	256GB	512GB
5	Protocol	PCIe Gen3 x 2 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
7	Sequential Read (MB/s)	1700	2250	2300
8	Sequential Write (MB/s)	600	1300	1850
10	4K Random Read (IOPS)	70K (Max)	85K (Max)	145K (Max)
11	4K Random Write (IOPS)	130K (Max)	280K (Max)	400K (Max)
12	Input Voltage	DC 3.3V ±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 of Hardware/Bad Block Management		
17	Features	Power management/TRIM/S.M.A.R.T./NCQ/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		

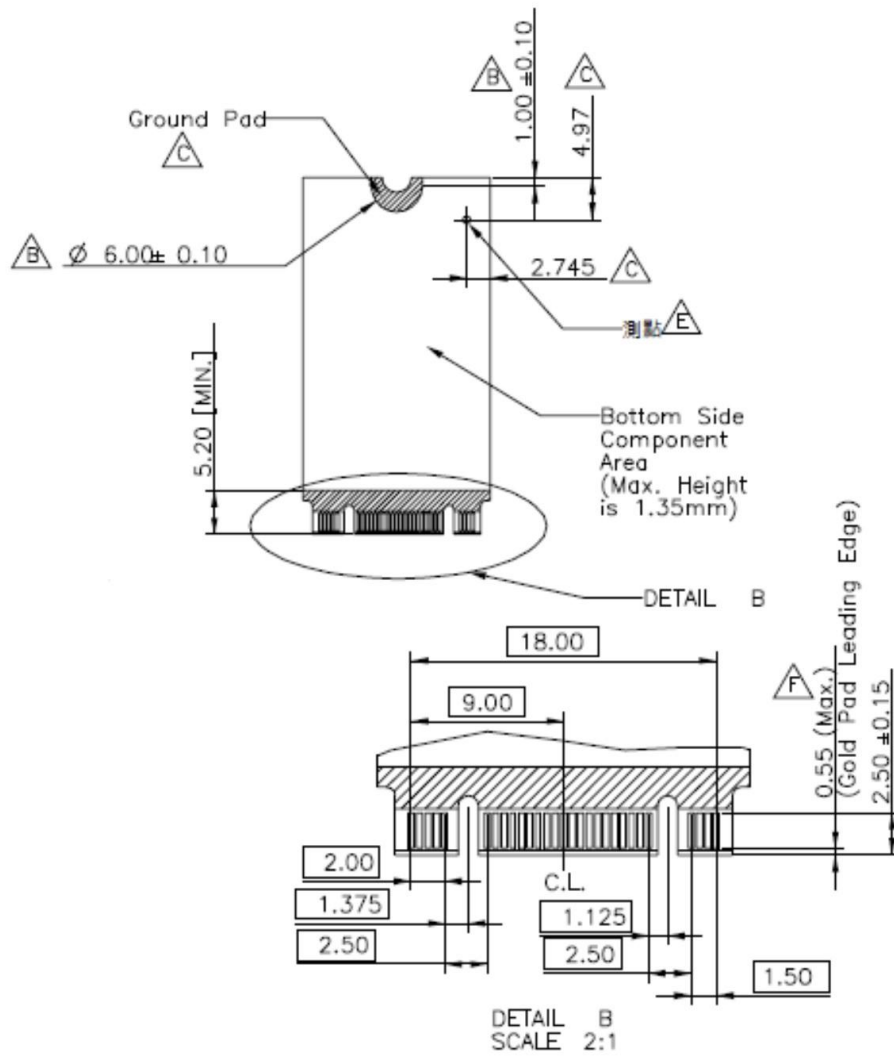
2. Mechanical Dimensions:

MakerDisk M.2 2242 NVMe SSD - M Key - 256GB & 512GB

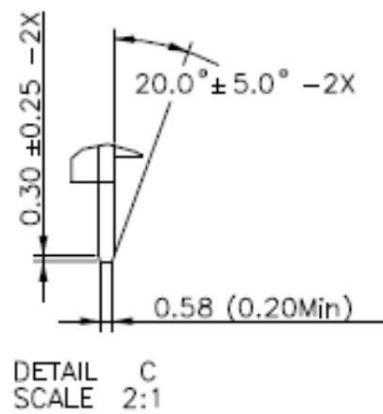
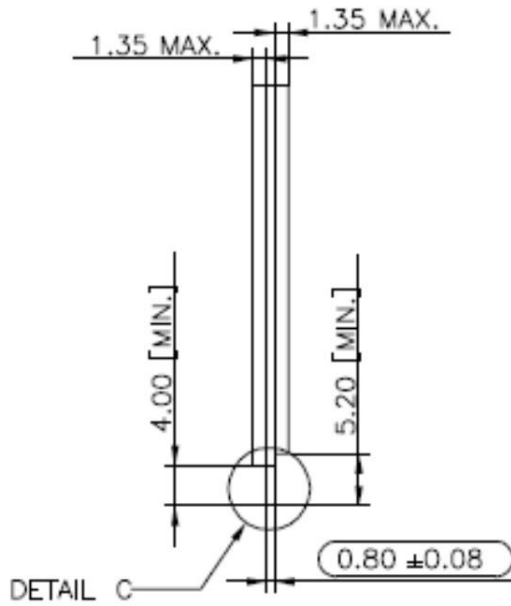
Top view:



Bottom view:



Side view:

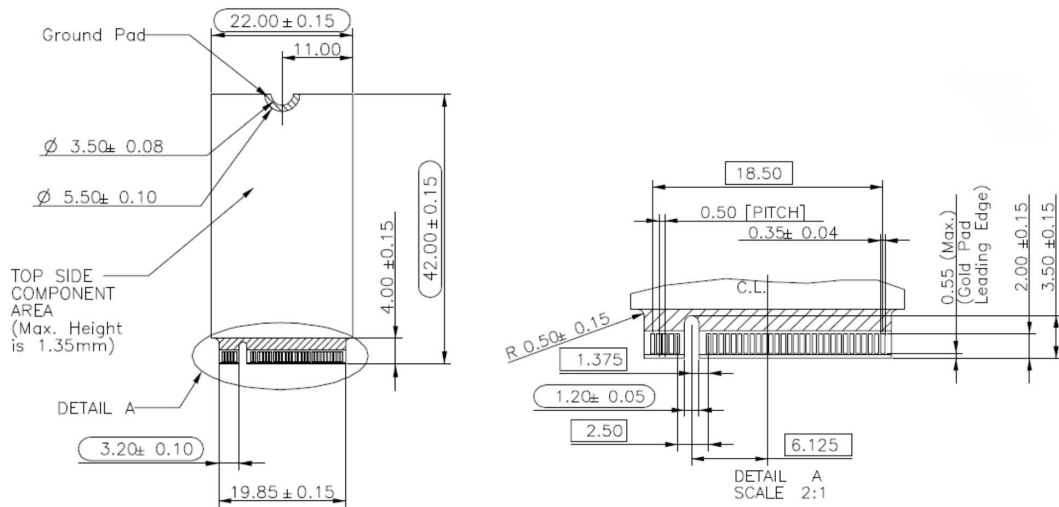


Notes :

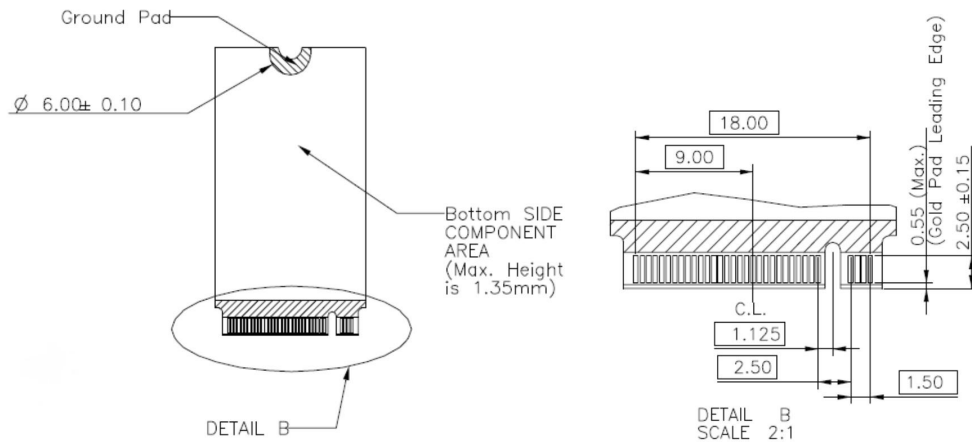
1.  = Max Component Height
2.  = No Component
3.  = No Component / Signal Vias / Signal Copper / Printing
4. General Tolerance $\pm 0.15\text{mm}$
5.  are critical dimensions

MakerDisk M.2 2242 NVMe SSD - M Key - 256GB & 512GB

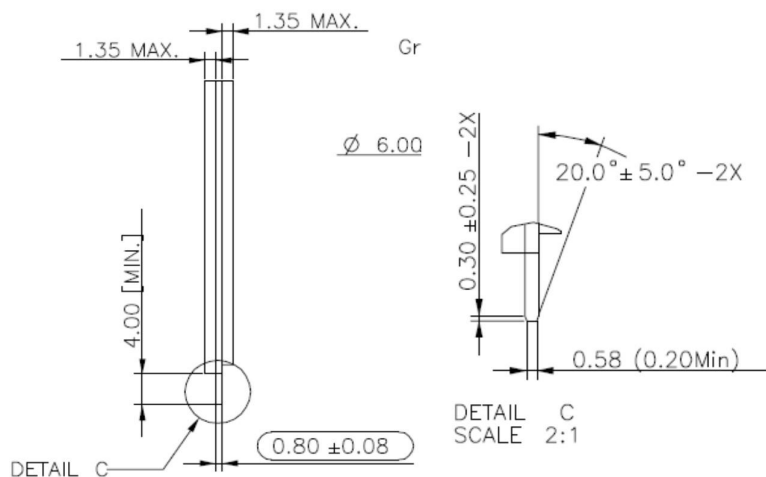
Top view:



Bottom view:



Side view:



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