RoHS Compliant

16GB DDR5 SDRAM SO-DIMM

Halogen free

Product Specifications

March 5, 2024

Version 1.1

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General Description

Apacer **D22.35284S.001** is a 16GB DDR5 SDRAM (Synchronous DRAM) SO-DIMM. This memory module consists of 8 pieces 2G x 8 bits DDR5 synchronous DRAMs in FBGA packages and 8K Bits EEPROM. The module is a 262-pins dual in-line memory module and is intended for mounting into a connector socket. The following provides general specifications of this module.

Ordering Information

Part Number	Density	Speed	Organization	DRAM Composition	Rank
D22.35284S.001	16GB	5600 Mbps	2Gx64	2Gx8 *8	1

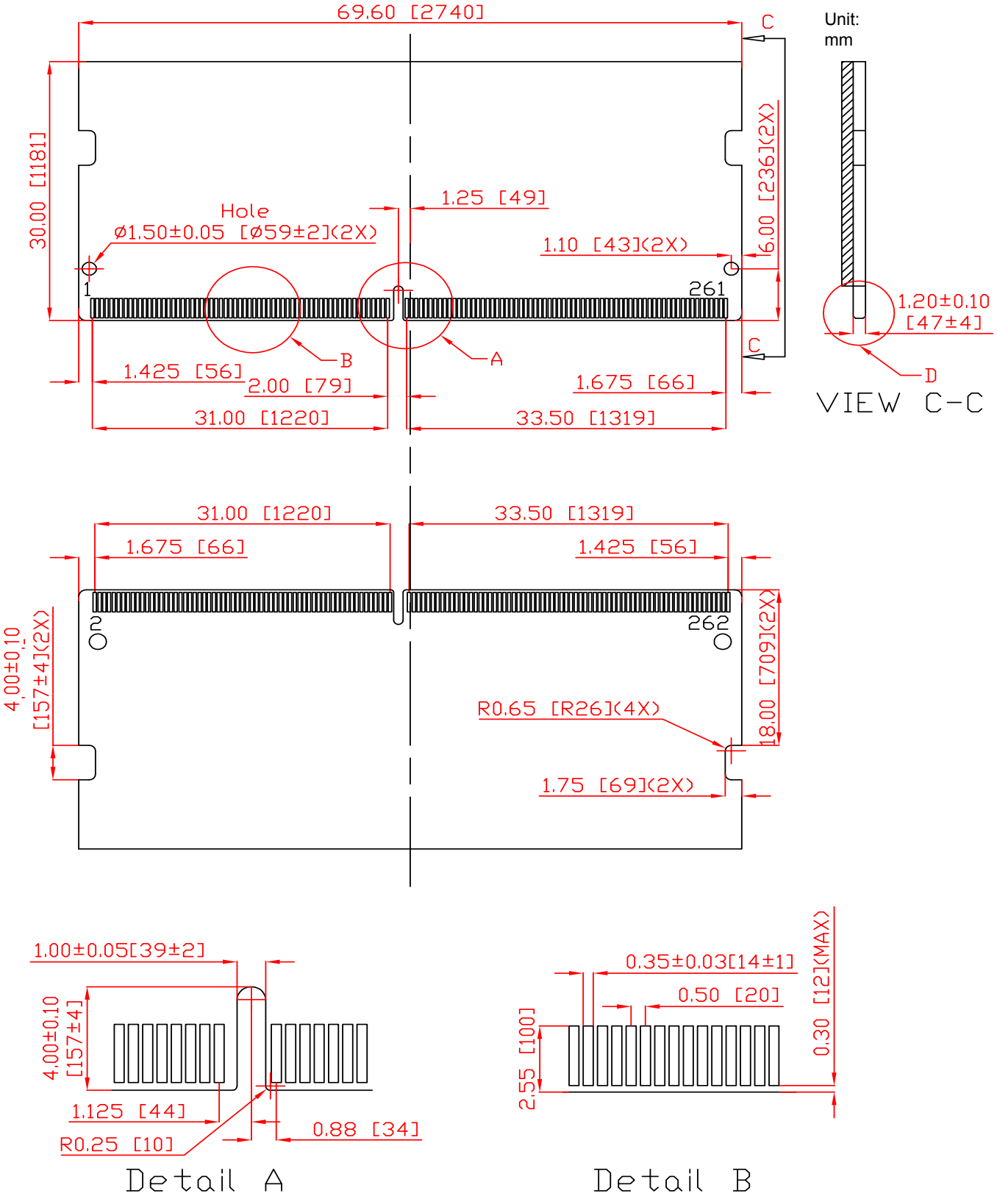
Key Parameters

Speed	DDR5-5600	Unit
	-CL46	
tCK (min)	0.357	ns
CAS latency	46	nCK
tRCD (min)	16	ns
tRP (min)	16	ns
tRAS (min)	32	ns
tRC (min)	48	ns
CL-tRCD-tRP	46-45-45	nCK

Features:

- JEDEC standard compliant
- On-DIMM thermal sensor : Yes
- PCB: height 30 mm, lead pitch 0.5 mm (pin),
- VDD = VDDQ= 1.1V (1.067V to 1.166V)
- VPP = 1.8V (1.746V to 1.908V)、VDDSPD = 1.8V
- 32 internal banks (x4, x8): 8 groups of 4 banks each
- 16 internal banks (x16): 4 groups of 4 banks each
- CAS Latency (CL): 22,26,28,30,32,36,40,42,46,48,
- CAS Write Latency (CWL): RL-2
- Operating temperature Tcase–(0℃~85℃)
- Average Refresh period 3.9us at lower than Tcase 85°C, 1.95us at 85°C < Tcase < 95 °C.
- All bank and same bank refresh
- Bi-Directional Differential Data Strobe
- 16-bit prefetch architecture
- On-die ECC
- ECC transparency and error scrub
- sPPR and hPPR capability
- Halogen free、Lead-free (RoHS compliant)

Mechanical Drawing



(All dimensions are in millimeters with ±0.15mm tolerance unless specified otherwise.)

Revision History

Revision	Date	Description	Remark
1.0	4/12/2022	Initial release	
1.1	11/4/2022	Updated DIMM Voltage Requirements	

Global Presence

Taiwan (Headquarters)

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