

ADVANCED INFORMATION

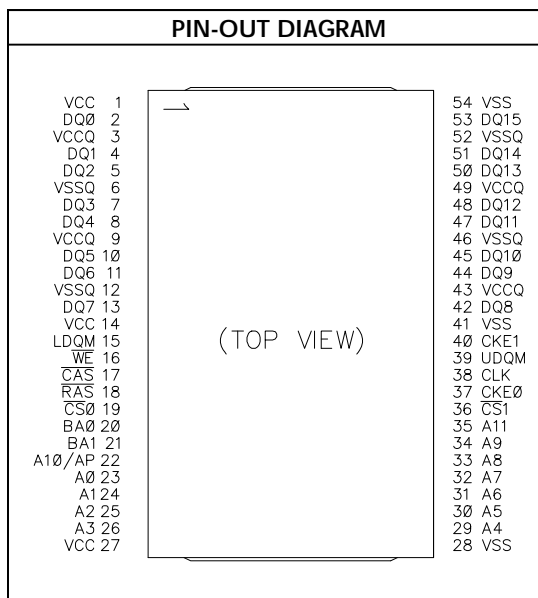
DESCRIPTION:

The PL-Stack series is a family of interchangeable memory modules. The 256 Megabit SDRAM is a member of this family which utilizes the new and innovative space saving TSOP stacking technology. The modules are constructed with 8 Meg x 16 SDRAMs.

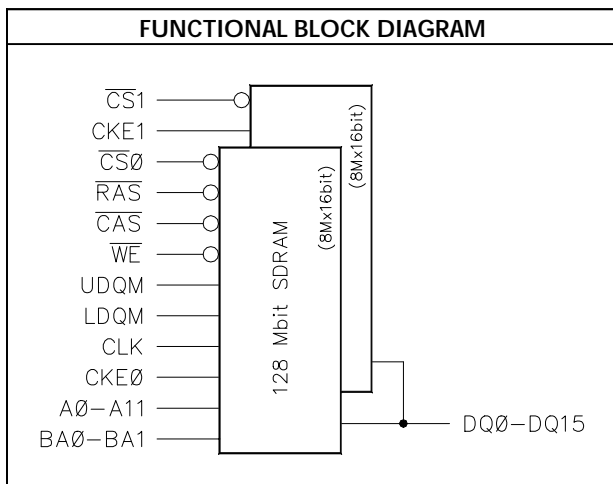
This 128 Megabit based PL-Stack module, the DPSD16ME16TKY5 has been designed to fit in the same footprint as the 8 Meg x 16 SDRAM TSOP monolithic and 128 Megabit SDRAM based family of PL-Stack modules. This allows the memory board designer to upgrade the memory in their products without redesigning the memory board, thus saving time and money.

FEATURES:

- Configuration Available:
16 Meg x 16 bit
(with two Chip Selects & two Clock Enables)
- Clock Frequency:
66, 83, 100, 125, 133MHz (max.)^[2]
- PC100 and PC133 Compatible
- 3.3V Supply
- LVTTL Compatible I/O
- Four Bank Operation
- Programmable Burst Type, Burst Length, and CAS Latency
- 4096 Cycles / 64 ms
- Auto and Self Refresh
- Package: TSOP Leadless Stack with Transposer



NOTES: [1] Available in Military and Industrial Temperature Ranges Only.
[2] Available in Commercial Temperature Range Only.



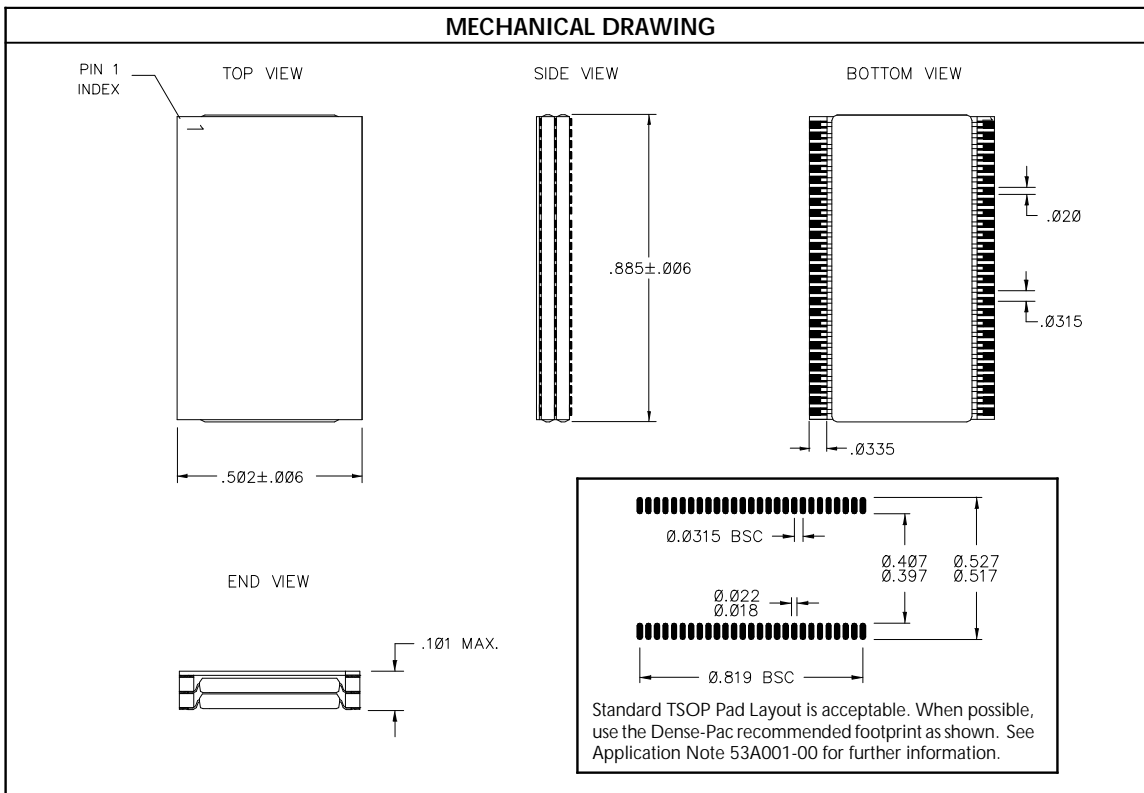
| PIN NAMES | |
|------------|--|
| A0 - A11 | Row Address: A0 - A11 Column Address: A0 - A7 |
| BA0, BA1 | Bank Select Address |
| DQ0 - DQ15 | Data In / Data Out |
| CAS | Column Address Strobes |
| RAS | Row Address Enables |
| WE | Data Write Enable |
| UDQM, LDQM | Upper & Lower Data Input/Output Mask |
| CKE0, CKE1 | Clock Enables |
| CLK | System Clock |
| CS0-CS1 | Chip Selects |
| Vcc/Vss | Power Supply/Ground |
| Vccq/Vssq | Data Output Power/Ground |

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| PART NUMBER DESCRIPTION | | | | | | | | | | | |
|-------------------------|------|--------------|-------|--------------|-------|---------|----------|--------|-------|----|--------------------------------|
| DP | SD | 16M | E | 16 | T | KY5 | - DP - | XX | XX | X | X |
| PREFIX | TYPE | MEMORY DEPTH | DESIG | MEMORY WIDTH | DESIG | PACKAGE | SUPPLIER | MEMORY | SPEED | CL | GRADE |
| | | | | | | | | | | | |
| | | | | | | | | | | | Blank Commercial Temperature |
| | | | | | | | | | | | I Industrial Temperature |
| | | | | | | | | | | | M Military Temperature |
| | | | | | | | | | | | 2 CAS LATENCY 2 |
| | | | | | | | | | | | 15 [2] 15ns (66MHz)[2] |
| | | | | | | | | | | | 12 [2] 12ns (83MHz)[2] |
| | | | | | | | | | | | 10 [2] 10ns (100MHz)[2] |
| | | | | | | | | | | | 08 [2] 8ns (125MHz)[2] |
| | | | | | | | | | | | 75 [2] 7.5ns (133MHz)[2] |
| | | | | | | | | | | | P1 PC100 |
| | | | | | | | | | | | MANUFACTURER CODE [3] |
| | | | | | | | | | | | SUPPLIER CODE [3] |
| | | | | | | | | | | | STACKABLE TSOP WITH TRANSPOSER |
| | | | | | | | | | | | 128 MEGABIT LVTTL BASED |
| | | | | | | | | | | | DUAL CLOCK ENABLES |
| | | | | | | | | | | | SYNCHRONOUS DRAM |

NOTES: [1] Available in Military and Industrial Temperature Ranges Only.
 [2] Available in Commercial Temperature Range Only.
 [3] Contact your sales representative for supplier and manufacturer codes.

MECHANICAL DRAWING



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