

## CIR-W3SUSPS1608G\*\*\*\*

DDR3 WIDE TEMP. SO-DIMM 1600MHz 8GB

### Description

The CIR-W3SUSPS1608G is 1024M words X 64 bits, 2 ranks. Unbuffered Small Outline Dual In-Line Memory Module (SO-DIMM). DDR3 SDRAMs in Fine Ball Grid Array (FBGA) packages on a 204pin glass-epoxy substrate. Provide a high performance 8 byte interface in 67.60mm width form factor of industry standard. It is suitable for easy interchange and addition.

### Specifications

|                  |                 |
|------------------|-----------------|
| Density          | 8GB             |
| Pin Count        | 204pin          |
| Type             | Unbuffered      |
| Dimensions       | 67.6mm x 30.0mm |
| ECC              | Non-ECC         |
| Component Config | 512M x 8 bit    |
| Data Rate        | 1600 MHz        |
| CAS Latency      | 11              |
| Voltage          | 1.35V / 1.5V    |
| PCB Layers       | 8               |
| Operating Temp.  | -40°C~+85°C     |
| Module Ranks     | Dual Rank       |

### Features

- 204pin, Small outline dual in-line memory module (SO-DIMM)
- Power supply: VDD= 1.35V (1.28V to 1.45V) & VDD= 1.5V (1.425V to 1.575V)
- Interface: SSTL\_15
- CAS (READ) latency (CL): 6, 7, 8, 9, 10, 11
- POSTED CAS ADDITIVE latency (AL)
- Fully differential clock inputs (CK, /CK) operation
- Differential Data Strobe (DQS, /DQS)
- DM masks write data-in at the both rising and falling edges of the data strobe
- BL switch on the fly
- 8banks
- 8K refresh cycles /64ms
- Dynamic On Die Termination supported
- Asynchronous RESET pin supported
- ZQ calibration supported
- TDQS (Termination Data Strobe) supported (x8 only)
- Write Levelization supported
- Refresh: Auto-Refresh, Self-Refresh
- 8 bit pre-fetch
- Lead-Free Products are RoHS compliant
- Support Industrial Temp ( -40 ~85°C )  
- tREFI 7.8us at -40 °C ≤ TCASE ≤ 85°C

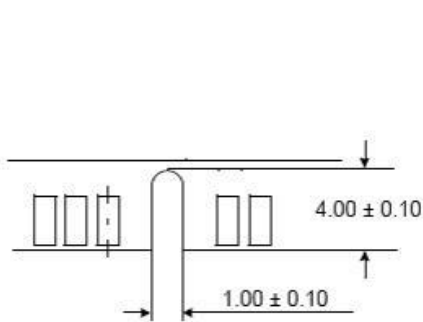
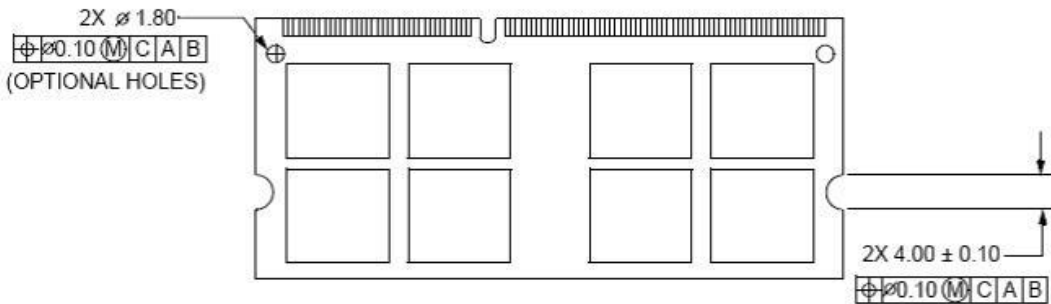
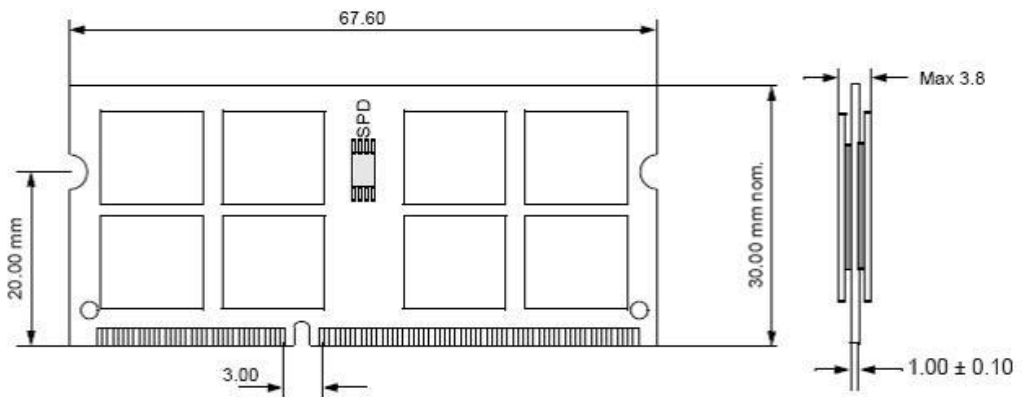


Speed Grade

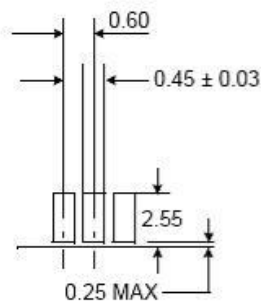
| Frequency Grade | Data Transfer Rate | CAS Latency Support |      |      |      |      |      | CL-tRCD-tRP |
|-----------------|--------------------|---------------------|------|------|------|------|------|-------------|
|                 |                    | CL6                 | CL7  | CL8  | CL9  | CL10 | CL11 |             |
| DDR3-1600       | PC3-12800          | 800                 | 1066 | 1066 | 1333 | 1333 | 1600 | 11-11-11    |

Package Dimensions

Unit: mm



Detail A



Detail B

Tolerances : ± 0.15mm unless otherwise specified