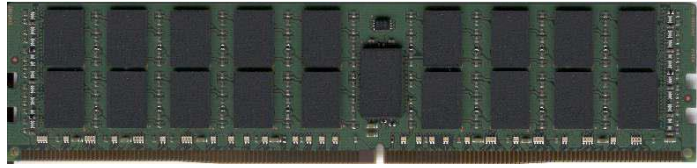


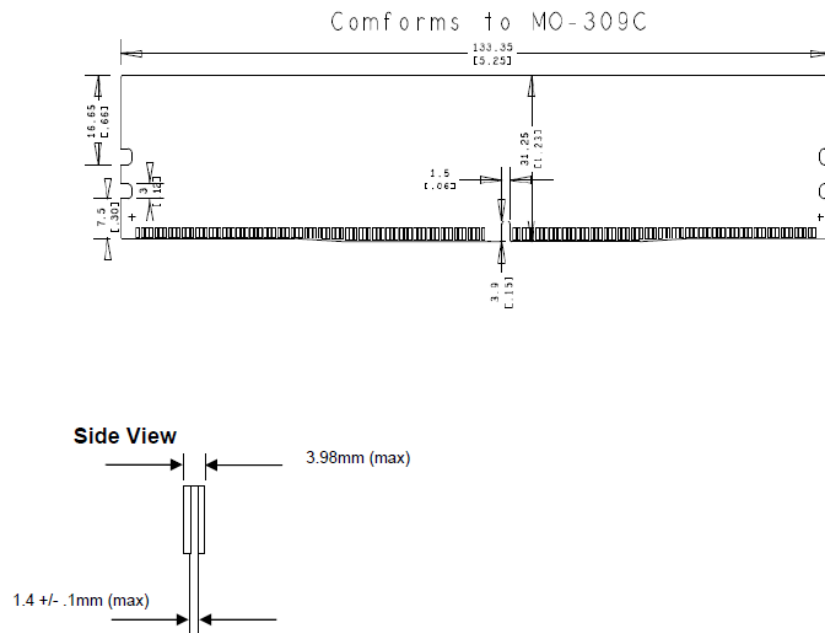
Products in Family

DRA29R8K2/16G (2 x 8GB RDIMMs)
 DRA29R8K2/32G (2 x 16GB RDIMMs)
 DRA29R4K2/64G (2 x 32GB RDIMMs)
 DRA29LR4K2/128G (2 x 64GB LRDIMMs)
 DRA29LR4K2/256G (2 x 128GB LRDIMMs)



| Features | Description |
|---|--|
| 288-pin JEDEC-compliant DIMMs 133.35 mm wide by 31.25 mm high (5.25" x 1.23") Data Transfer Rate: 23.4 Gigabytes/sec Operating Voltage: 1.2V (1.14V~1.26V) Fully RoHS Compliant Thermal Sensor | These Apple Mac Pro (2019) compatible memory options are registered and load-reduced DIMMs which conform to JEDEC's DDR4-2933, PC4-2933Y standard. Each Dataram product contains two modules. One EEPROM is used for Serial Presence Detect and a combination register/PLL, with Address and Command Parity is also used. |

| Dataram Product Number | Apple Product Number | Product Description |
|------------------------|----------------------|-------------------------------|
| DRA29R8K2/16G | MX1G2G/A | 2 x 8GB 1Rx8 PC4-2933Y-R21 |
| DRA29R8K2/32G | MX1H2G/A | 2 x 16GB 2Rx8 PC4-2933Y-R21 |
| DRA29R4K2/64G | MX1J2G/A | 2 x 32GB 2Rx4 PC4-2933Y-R21 |
| DRA29LR4K2/128G | MX1K2G/A | 2 x 64GB 4Rx4 PC4-2933Y-L21 |
| DRA29LR4K2/256G | MX8G2G/A | 2 x 128GB 4DRx4 PC4-2933Y-L21 |



Notes:

1. Tolerances on all dimensions except where otherwise indicated are ±.13. Reference JEDEC standard MO-309C.
2. All dimensions are expressed: millimeters [inches]