

# muRata Inductor Data Sheet

## 1277AS-H-R68M#

"#" indicates a package specification code.



< List of part numbers with package codes >  
1277AS-H-R68M=P2

### Shape

|                        |             |
|------------------------|-------------|
| L size                 | 3.2 ±0.2mm  |
| W size                 | 2.5 ±0.2mm  |
| T size                 | 1.2 mm      |
| Size code in inch (mm) | 1210 (3225) |

### Notes

Rated current (I<sub>sat</sub>) is specified when the decrease of the initial inductance value at 30%. (The ambient reference temperature is 20°C)  
Rated current (I<sub>temp</sub>) is specified when temperature of the inductor is raised 40°C by DC current. (The ambient reference temperature is 20°C)

### References

| Packaging code | Specifications          | Minimum quantity |
|----------------|-------------------------|------------------|
| =P2            | φ 180mm Embossed taping | 3000             |

| Mass (Typ.) |         |
|-------------|---------|
| 1 piece     | 0.0448g |

### Specifications

|   |             |
|---|-------------|
| Inductance  | 0.68μH ±20% |
| Inductance test frequency                                       | 1MHz        |
| Rated current (I <sub>sat</sub> ) (Based on Inductance change)  | 4200mA      |
| Rated current (I <sub>temp</sub> ) (Based on Temperature rise)  | 3500mA      |
| Max. of DC resistance   | 0.035Ω      |
| Operating temperature range (Self-temperature rise is included) | -40~85°C    |
| Class of magnetic shield  | Metal Alloy |
| Absolute maximum voltage  | 20V DC      |

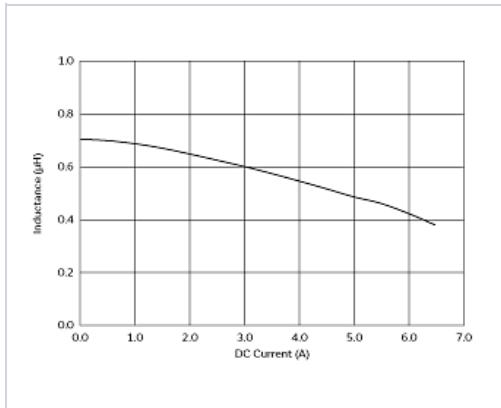
1 of 2

### ⚠ Attention

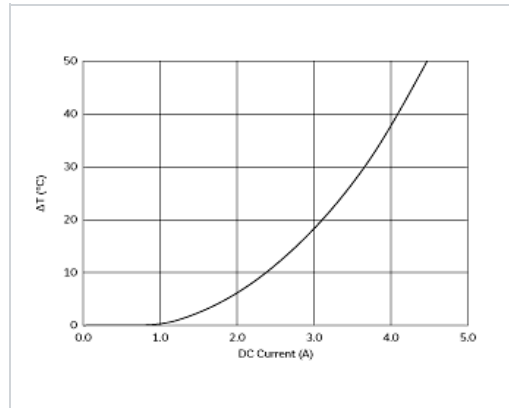
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**Chart of characteristic data (The charts below may show another part number which shares its characteristics.)**

▪ Inductance-Current characteristics (Typ.)



▪ Temperature rise characteristics (Typ.)



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