

## Excellent Integrated System Limited

Stocking Distributor

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[TDK Corporation](#)  
[CLF7045T-1R0N-H](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**New Products**

# CLF7045-H TYPE SMD Power Inductor

**Component  
Image & Dimension**



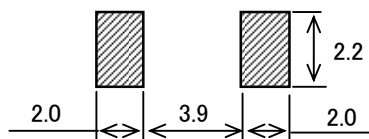
**Features :**

- a) Miniature Size :  
 Mount Area :6.9mm x 7.2mm  
 Low Profile : 4.8mm Max. Height
- b) Tough Design  
 Generic use for Automotive Appliance.  
 Heat and vibration, mechanical shock resistance ability can endure an automobile use.  
 Operation temperature ; -40°C ~ +125°C  
 (Including self-temperature rise)  
 Storage temperature ; -40°C ~ +125°C
- c) High Magnetic Shield Construction should actualize High Resolution for EMC Protection.
- d) Automatic Mounting in Tape & Reel Package.

**Applications :**

Automotive Appliance (ECM, HID, Air Bag, Transmission Control, Car Navigation, Car Audio, GPS System) etc.

\*Recommended Land Pattern (Unit : mm)



**Electrical Specification (Ref.)**

| TDK-EPC Identification | Inductance |        | Test Freq. (kHz) | DC Resistance |        | Rated DC Current |           |
|------------------------|------------|--------|------------------|---------------|--------|------------------|-----------|
|                        | Spec. (uH) | Tol.   |                  | Spec. (Ohm.)  | Tol.   | Idc 1 (A)        | Idc 2 (A) |
| CLF7045T- 1R0N-H       | 1.0        | +/-30% | 100              | 9.6m          | +/-30% | 8.9              | 5.2       |
| CLF7045T- 1R5N-H       | 1.5        | +/-30% | 100              | 11.0m         | +/-30% | 7.3              | 4.9       |
| CLF7045T- 2R2N-H       | 2.2        | +/-30% | 100              | 14.6m         | +/-30% | 5.5              | 4.3       |
| CLF7045T- 3R3N-H       | 3.3        | +/-30% | 100              | 16.4m         | +/-30% | 5.0              | 4.1       |
| CLF7045T- 4R7N-H       | 4.7        | +/-30% | 100              | 20m           | +/-30% | 4.1              | 3.6       |
| CLF7045T- 6R8N-H       | 6.8        | +/-30% | 100              | 27m           | +/-30% | 3.3              | 3.0       |
| CLF7045T- 100M-H       | 10         | +/-20% | 100              | 38m           | +/-20% | 2.7              | 2.5       |
| CLF7045T- 150M-H       | 15         | +/-20% | 100              | 51m           | +/-20% | 2.3              | 2.1       |
| CLF7045T- 220M-H       | 22         | +/-20% | 100              | 69m           | +/-20% | 1.9              | 1.8       |
| CLF7045T- 330M-H       | 33         | +/-20% | 100              | 0.11          | +/-20% | 1.55             | 1.40      |
| CLF7045T- 470M-H       | 47         | +/-20% | 100              | 0.15          | +/-20% | 1.30             | 1.20      |
| CLF7045T- 680M-H       | 68         | +/-20% | 100              | 0.21          | +/-20% | 1.10             | 0.95      |
| CLF7045T- 101M-H       | 100        | +/-20% | 100              | 0.33          | +/-20% | 0.90             | 0.75      |
| CLF7045T- 151M-H       | 150        | +/-20% | 100              | 0.48          | +/-20% | 0.67             | 0.61      |
| CLF7045T- 221M-H       | 220        | +/-20% | 100              | 0.66          | +/-20% | 0.62             | 0.52      |
| CLF7045T- 331M-H       | 330        | +/-20% | 100              | 1.03          | +/-20% | 0.49             | 0.42      |
| CLF7045T- 471M-H       | 470        | +/-20% | 100              | 1.42          | +/-20% | 0.43             | 0.37      |

Note) Idc 1 : Depend on the Inductance Saturation. (-10% Saturation from Initial L Value)  
 Idc 2 : Depend on the self temperature rise. (+30 degC typ.)