



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



**Component  
Image & Dimension**



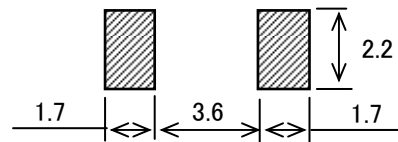
**Features :**

- a) Miniature Size :  
Mount Area :5.9mm x 6.2mm  
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 ~ +150°C  
(Including self-temperature rise)  
Storage temperature ; -40°C ~ +150°C
- c) High Magnetic Shield Construction should actualize High Resolution for EMC Protection.
- d) Automatic Mounting in Tape & Reel Package.

**Applications :**

for Automotive electric control devices and high temperature operation devices  
Automotive Appliance (ECM, HID, SRS Air Bag, Transmission control, Power steering control, Brake control, 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) |
| CLF6045T- 1R0N-D       | 1.0        | +/-30% | 100              | 11m           | +/-30% | 5.0              | 4.5       |
| CLF6045T- 1R5N-D       | 1.5        | +/-30% | 100              | 13m           | +/-30% | 4.4              | 4.2       |
| CLF6045T- 2R2N-D       | 2.2        | +/-30% | 100              | 15m           | +/-30% | 3.9              | 4.0       |
| CLF6045T- 3R3N-D       | 3.3        | +/-30% | 100              | 19m           | +/-30% | 3.1              | 3.5       |
| CLF6045T- 4R7N-D       | 4.7        | +/-30% | 100              | 23m           | +/-30% | 2.5              | 3.2       |
| CLF6045T- 6R8N-D       | 6.8        | +/-30% | 100              | 27m           | +/-30% | 2.2              | 2.9       |
| CLF6045T- 100M-D       | 10         | +/-20% | 100              | 38m           | +/-20% | 1.7              | 2.4       |
| CLF6045T- 150M-D       | 15         | +/-20% | 100              | 55m           | +/-20% | 1.5              | 2.0       |
| CLF6045T- 220M-D       | 22         | +/-20% | 100              | 78m           | +/-20% | 1.3              | 1.7       |
| CLF6045T- 330M-D       | 33         | +/-20% | 100              | 103m          | +/-20% | 1.07             | 1.5       |
| CLF6045T- 470M-D       | 47         | +/-20% | 100              | 130m          | +/-20% | 0.90             | 1.3       |
| CLF6045T- 680M-D       | 68         | +/-20% | 100              | 215m          | +/-20% | 0.79             | 1.0       |
| CLF6045T- 101M-D       | 100        | +/-20% | 100              | 340m          | +/-20% | 0.64             | 0.70      |
| CLF6045T- 151M-D       | 150        | +/-20% | 100              | 480m          | +/-20% | 0.50             | 0.60      |
| CLF6045T- 221M-D       | 220        | +/-20% | 100              | 780m          | +/-20% | 0.41             | 0.50      |
| CLF6045T- 331M-D       | 330        | +/-20% | 100              | 970m          | +/-20% | 0.35             | 0.44      |
| CLF6045T- 471M-D       | 470        | +/-20% | 100              | 1.42          | +/-20% | 0.30             | 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.)