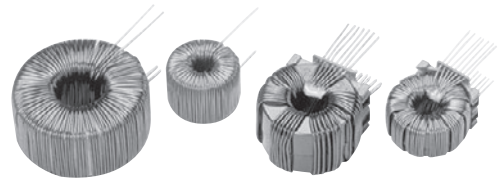


### ◆ MAJOR USES

- Choke coils for Power Factor Corrective circuit
- Normal mode choke coils for noise control



### ◆ FEATURES

- Excellent D.C. bias characteristics
- Reduction of core loss in comparison with the conventional CM-series coils, providing low temperature rises for uses at power of 100V or larger
- Excellent temperature stability

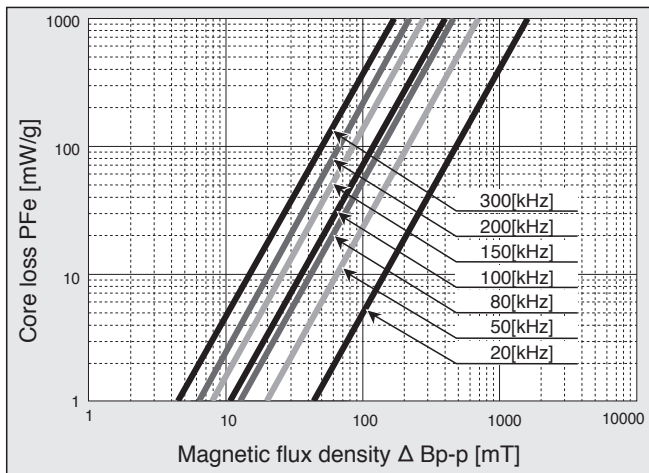
### ◆ CORE STANDARD SPECIFICATIONS

| Core Part No.<br>(Old Core Part No.) | Abbreviation | Cross Sectional Area<br>cm <sup>2</sup> | Magnetic Path Length<br>cm | Outside Dimensions   |             |              | Inductance Coefficient AL Value |                      |                                      |
|--------------------------------------|--------------|---|----------------------------|----------------------|-------------|--------------|---------------------------------|----------------------|--------------------------------------|
|                                      |              |   |                            | Outer Diameter<br>mm | Width<br>mm | Height<br>mm | I <sub>dc</sub> =0[A]<br>μH     | Rated Current*<br>μH | Rated Current<br>Ampere Turn<br>[AT] |
| LNC251510J3<br>(C251510J3)           | J7H          | 0.430                                   | 6.28                       | 28.3                 | 12.7        | 12.3         | 0.100                           | 0.075                | 430                                  |
| LNC251515J2<br>(C251515J2)           | J8H          | 0.645                                   | 6.28                       | 28.3                 | 12.7        | 17.5         | 0.140                           | 0.113                | 460                                  |
| LNC322015J2<br>(C322015J2)           | JRH          | 0.774                                   | 8.17                       | 35.2                 | 17.5        | 17.3         | 0.122                           | 0.102                | 600                                  |
| LNC322020J2<br>(C322020J2)           | JAH          | 1.032                                   | 8.17                       | 35.5                 | 17.0        | 23.8         | 0.156                           | 0.125                | 660                                  |
| LNC372320J2<br>(C372320J2)           | JBH          | 1.204                                   | 9.42                       | 40.5                 | 19.5        | 23.0         | 0.173                           | 0.140                | 700                                  |
| LNC462720J2<br>(C462720J2)           | JCH          | 1.634                                   | 11.50                      | 49.4                 | 22.7        | 23.0         | 0.191                           | 0.156                | 840                                  |
| LNC462725J2<br>(C462725J2)           | JKH          | 2.043                                   | 11.50                      | 49.4                 | 22.7        | 28.0         | 0.230                           | 0.183                | 900                                  |
| LNC603525J2<br>(C603525J2)           | JLH          | 2.688                                   | 14.90                      | 66.7                 | 29.3        | 29.2         | 0.230                           | 0.166                | 1300                                 |

\*100[kHz], ±25%

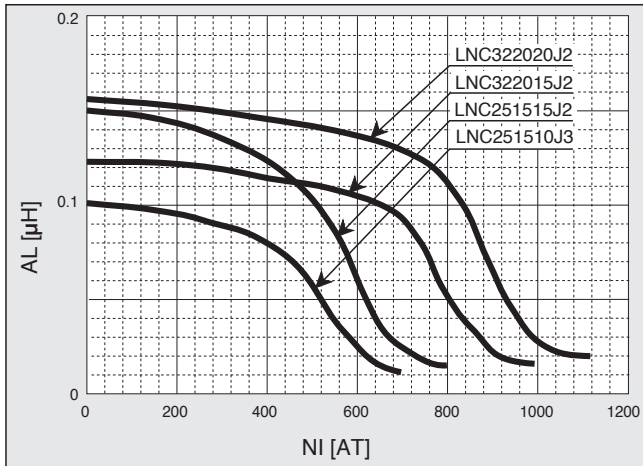
### ◆ CORE LOSS CHARACTERISTICS

- AM choke



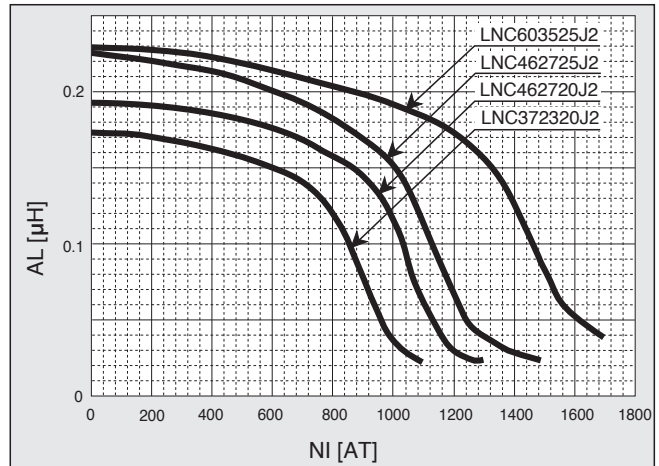
### ◆D.C. BIAS CHARACTERISTICS AL-AT(1)

●Frequency : 100[kHz]



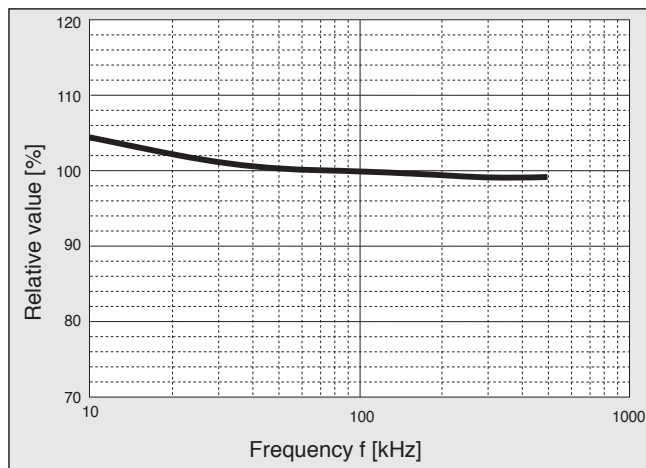
### ◆D.C. BIAS CHARACTERISTICS AL-AT(2)

●Frequency : 100[kHz]



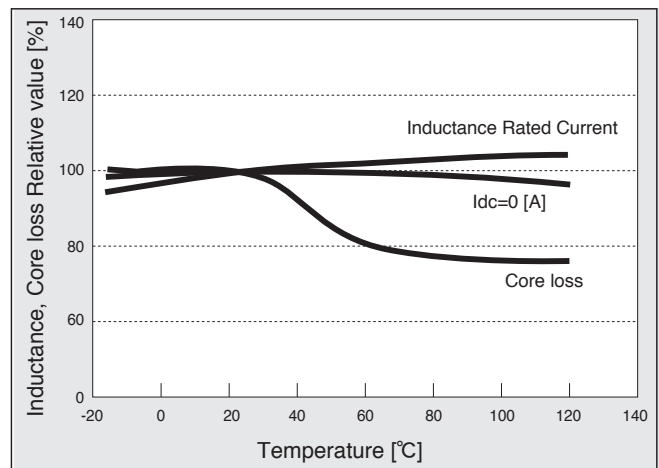
### ◆FREQUENCY - INDUCTANCE CHARACTERISTICS

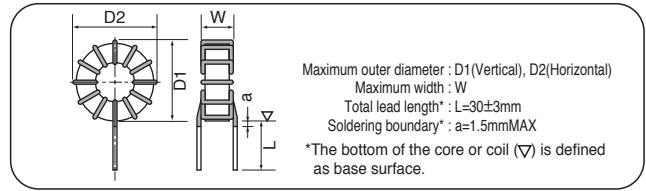
●AM choke



### ◆TEMPERATURE DEPENDENCE - INDUCTANCE AND CORE LOSS

●Frequency : 100[kHz]





### ◆ COIL STANDARD SPECIFICATIONS

| Coil Part No.<br>(Old Coil Part No.)  | Rated Current<br>Arms | Peak Current<br>A | Inductance<br>(100kHz) |                    | D.C.R.<br>mΩ<br>(max) | Winding<br>mmφ×Lines | Outside Dimensions |          |         |
|---------------------------------------|-----------------------|-------------------|------------------------|--------------------|-----------------------|----------------------|--------------------|----------|---------|
|                                       |                       |                   | 0[A]<br>μH             | Rating<br>μH       |                       |                      | D1<br>mm           | D2<br>mm | W<br>mm |
| ○ LAAM002202J7HV0E<br>(AM02202J7HPBF) | 2                     | 2.8               | 2400 <sup>*2</sup>     | 2000 <sup>*2</sup> | 350                   | 0.7×1P               | 33.0               | 34.5     | 19.0    |
| ○ LAAM003901J7HV0E<br>(AM03901J7HPBF) | 3                     | 4.2               | 1100                   | 900                | 170                   | 0.9×1P               | 33.0               | 34.5     | 19.5    |
| ○ LAAM003152J8HV0E<br>(AM03152J8HPBF) | 3                     | 4.2               | 2000                   | 1500               | 230                   | 0.85×1P              | 35.5               | 35.5     | 26.0    |
| ○ LAAM004801J8HV0E<br>(AM04801J8HPBF) | 4                     | 5.7               | 1100                   | 800                | 150                   | 0.9×1P               | 34.0               | 34.0     | 25.5    |
| ○ LAAM005501J8HV0E<br>(AM05501J8HPBF) | 5                     | 7.1               | 600                    | 500                | 80                    | 1.1×1P               | 34.5               | 34.5     | 28.0    |
| ○ LAAM004102JRHV0E<br>(AM04102JRHPBF) | 4                     | 5.7               | 1200                   | 1000               | 160                   | 1.0×1P               | 40.5               | 42.0     | 26.5    |
| ○ LAAM005751JRHV0E<br>(AM05751JRHPBF) | 5                     | 7.1               | 890                    | 750                | 110                   | 1.1×1P               | 40.5               | 42.0     | 27.0    |
| ○ LAAM005901JAHV0E<br>(AM05901JAHPBF) | 5                     | 7.1               | 1000                   | 900                | 115                   | 1.1×1P               | 40.5               | 42.0     | 32.0    |
| ○ LAAM006651JAHV0E<br>(AM06651JAHPBF) | 6                     | 8.5               | 740                    | 650                | 87                    | 1.2×1P               | 41.0               | 42.5     | 32.5    |
| ○ LAAM005122JBHV0E<br>(AM05122JBHPBF) | 5                     | 7.1               | 1500                   | 1200               | 140                   | 1.1×1P               | 45.5               | 47.0     | 31.5    |
| ○ LAAM006801JBHV0E<br>(AM06801JBHPBF) | 6                     | 8.5               | 970                    | 800                | 94                    | 1.2×1P               | 45.0               | 46.5     | 30.5    |
| ○ LAAM008501JBHV0E<br>(AM08501JBHPBF) | 8                     | 11.3              | 600                    | 500                | 53                    | 1.0×2P               | 46.5               | 48.0     | 32.0    |
| ○ LAAM008801JCHV0E<br>(AM08801JCHPBF) | 8                     | 11.3              | 1000                   | 800                | 73                    | 1.0×2P               | 56.0               | 57.5     | 33.5    |
| ○ LAAM010501JCHV0E<br>(AM10501JCHPBF) | 10                    | 14.1              | 600                    | 500                | 45                    | 1.1×2P               | 54.5               | 56.0     | 32.5    |
| ○ LAAM012351JCHV0E<br>(AM12351JCHPBF) | 12                    | 17.0              | 420                    | 350                | 33                    | 1.2×2P               | 55.0               | 56.5     | 32.0    |
| ○ LAAM010651JKHV0E<br>(AM10651JKHPBF) | 10                    | 14.1              | 840                    | 650                | 53                    | 1.1×2P               | 56.0               | 57.5     | 38.0    |
| ○ LAAM012451JKHV0E<br>(AM12451JKHPBF) | 12                    | 17.0              | 590                    | 450                | 41                    | 1.2×2P               | 55.5               | 57.0     | 38.0    |
| ○ LAAM015301JKHV0E<br>(AM15301JKHPBF) | 15                    | 21.2              | 380                    | 300                | 26                    | 1.1×3P               | 55.5               | 57.0     | 38.0    |
| ○ LAAM012701JLHV0E<br>(AM12701JLHPBF) | 12                    | 17.0              | 860                    | 700                | 53                    | 1.2×2P               | 72.5               | 74.0     | 39.0    |
| ○ LAAM015451JLHV0E<br>(AM15451JLHPBF) | 15                    | 21.2              | 550                    | 450                | 35                    | 1.1×3P               | 72.0               | 73.5     | 40.0    |
| ○ LAAM020251JLHV0E<br>(AM20251JLHPBF) | 20                    | 28.3              | 310                    | 250                | 20                    | 1.1×4P               | 72.5               | 74.0     | 39.0    |

\*1 Rated inductance tolerance : ±25%, the inductance at current 0[A] indicates the reference value.

\*2 LAAM002202J7HV0E : 10kHz.

There is a horizontal putting type in all items in the above list. "V" changes into "H" in last the third digit of the name of items.

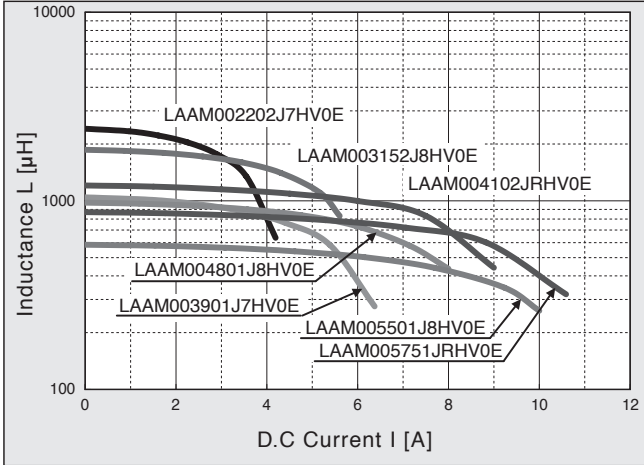
There are the type with the length putting seat and the horizontal putting seat in ○ item.

\*Order the auxiliary pins separately if they are required for the pedestal.

Please select them according to the situation.

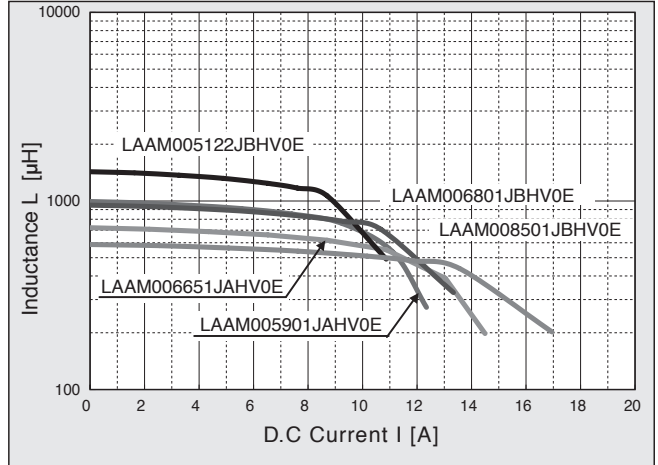
◆D.C. BIAS CHARACTERISTICS (1)

●Core : LNC251510J3, LNC251515J2, LNC322015J2,  
Frequency : 100[kHz]



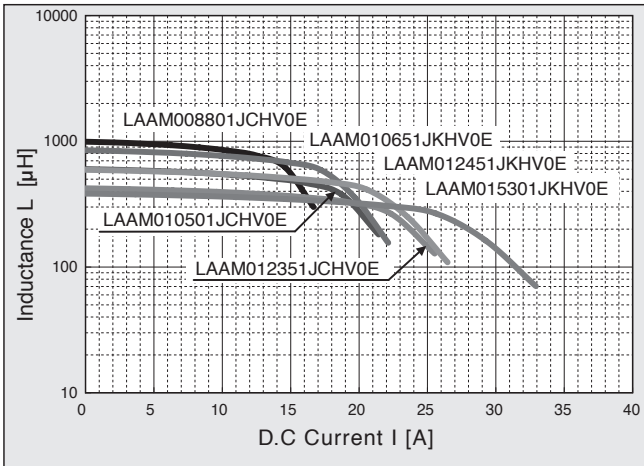
◆D.C. BIAS CHARACTERISTICS (2)

●Core : LNC322020J2, LNC372320J2, Frequency : 100[kHz]



◆D.C. BIAS CHARACTERISTICS (3)

●Core : LNC462720J2, Frequency : 100[kHz]



◆D.C. BIAS CHARACTERISTICS (4)

●Core : LNC603525J2, Frequency : 100[kHz]

