

## TYPE CDRH127, CDRH127/LD, CDRR157

| Parts No. | L (H) | CDRH127          |                     | CDRH127/LD              |                     | CDRR157                 |                                |                                     |
|-----------|-------|------------------|---------------------|-------------------------|---------------------|-------------------------|--------------------------------|-------------------------------------|
|           |       | D.C.R. (Ω): Max. | Rated Current (A) 5 | D.C.R. (Ω): Max. (Typ.) | Rated Current (A) 5 | D.C.R. (Ω): Max. (Typ.) | Saturation Rated Current (A) A | Temperature Rise Current (Typ.) (A) |
| 1R0       | 1.0μ  |                  |                     | 6.5m ( 5.0m)            | 14.0                |                         |                                |                                     |
| 1R2       | 1.2μ  | 7.0m ( 5.2m)     | 9.80                |                         |                     |                         |                                |                                     |
| 1R3       | 1.3μ  |                  |                     |                         |                     | 5.7m ( 4.5m)            | 17.0                           | 9.2                                 |
| 2R0       | 2.0μ  |                  |                     |                         |                     | 7.0m ( 5.6m)            | 13.4                           | 9.0                                 |
| 2R4       | 2.4μ  | 11.5m ( 8.5m)    | 8.00                | 10.5m ( 8.1m)           | 10.3                |                         |                                |                                     |
| 2R7       | 2.7μ  |                  |                     |                         |                     | 8.3m ( 6.6m)            | 12.0                           | 8.0                                 |
| 3R3       | 3.3μ  |                  |                     |                         |                     | 9.6m ( 7.7m)            | 10.8                           | 7.5                                 |
| 3R5       | 3.5μ  | 13.5m (10.0m)    | 7.50                | 12.4m ( 9.5m)           | 9.30                |                         |                                |                                     |
| 4R6       | 4.6μ  |                  |                     | 13.8m (10.6m)           | 9.10                |                         |                                |                                     |
| 4R7       | 4.7μ  | 15.8m (11.7m)    | 6.80                |                         |                     | 12.9m (10.3m)           | 9.2                            | 6.5                                 |
| 5R8       | 5.8μ  |                  |                     | 16.2m (12.4m)           | 8.60                |                         |                                |                                     |
| 6R1       | 6.1μ  | 17.6m (13.0m)    | 6.60                |                         |                     |                         |                                |                                     |
| 6R8       | 6.8μ  |                  |                     |                         |                     | 16.5m (13.2m)           | 7.6                            | 6.0                                 |
| 7R4       | 7.4μ  |                  |                     | 17.7m (13.6m)           | 7.40                |                         |                                |                                     |
| 7R6       | 7.6μ  | 20.0m (15.0m)    | 5.90                |                         |                     |                         |                                |                                     |
| 100       | 10μ   | 21.6m (16.0m)    | 5.40                | 19.5m (15.0m)           | 6.70                | 25.0m (20.0m)           | 6.4                            | 5.0                                 |
| 120       | 12μ   | 24.3m (18.0m)    | 4.90                | 21.3m (16.4m)           | 6.45                |                         |                                |                                     |
| 150       | 15μ   | 27.0m (20.0m)    | 4.50                | 26.4m (20.3m)           | 5.65                | 37.5m (30.0m)           | 5.0                            | 3.8                                 |
| 180       | 18μ   | 39.2m (29.0m)    | 3.90                | 28.0m (21.5m)           | 5.10                |                         |                                |                                     |
| 220       | 22μ   | 43.2m (32.0m)    | 3.60                | 36.4m (28.0m)           | 4.70                | 47.0m (37.5m)           | 4.2                            | 3.5                                 |
| 270       | 27μ   | 45.9m (34.0m)    | 3.40                | 41.6m (32.0m)           | 4.20                |                         |                                |                                     |
| 330       | 33μ   | 64.8m (48.0m)    | 3.00                | 53.3m (41.0m)           | 3.90                | 69.0m (55.0m)           | 3.5                            | 2.7                                 |
| 390       | 39μ   | 72.9m (54.0m)    | 2.75                | 60.5m (46.5m)           | 3.50                |                         |                                |                                     |
| 470       | 47μ   | 100m (76.0m)     | 2.50                | 78.0m (60.0m)           | 3.25                | 105.0m (84.0m)          | 2.9                            | 2.0                                 |
| 560       | 56μ   | 110m (83.0m)     | 2.35                | 90.0m (69.0m)           | 2.90                |                         |                                |                                     |
| 680       | 68μ   | 140m ( 100m)     | 2.10                | 120m (92.0m)            | 2.60                | 166.0m ( 133m)          | 2.4                            | 1.6                                 |
| 820       | 82μ   | 160m ( 120m)     | 1.95                | 119m (91.0m)            | 2.40                |                         |                                |                                     |
| 101       | 100μ  | 220m ( 170m)     | 1.70                | 151m ( 119m)            | 2.10                | 244.0m ( 195m)          | 2.0                            | 1.3                                 |
| 121       | 120μ  | 250m ( 180m)     | 1.60                | 169m ( 130m)            | 1.90                |                         |                                |                                     |
| 151       | 150μ  | 280m ( 210m)     | 1.42                | 227m ( 174m)            | 1.80                | 330.0m ( 264m)          | 1.6                            | 1.1                                 |
| 181       | 180μ  | 350m ( 260m)     | 1.30                | 299m ( 230m)            | 1.55                |                         |                                |                                     |
| 221       | 220μ  | 390m ( 290m)     | 1.16                | 338m ( 260m)            | 1.45                | 485.0m ( 388m)          | 1.3                            | 900m                                |
| 271       | 270μ  | 560m ( 420m)     | 1.06                | 419m ( 322m)            | 1.30                | 595.0m ( 475m)          | 1.2                            | 800m                                |
| 331       | 330μ  | 640m ( 470m)     | 950m                | 471m ( 362m)            | 1.20                | 738.0m ( 590m)          | 1.1                            | 700m                                |
| 391       | 390μ  | 700m ( 520m)     | 880m                | 572m ( 440m)            | 1.10                |                         |                                |                                     |
| 471       | 470μ  | 980m ( 730m)     | 790m                | 741m ( 570m)            | 1.00                | 1.000 ( 800m)           | 900m                           | 600m                                |
| 561       | 560μ  | 1.07 ( 790m)     | 730m                | 852m ( 655m)            | 950m                |                         |                                |                                     |
| 681       | 680μ  | 1.46 ( 1.12)     | 670m                | 1.13 ( 870m)            | 850m                | 1.544 ( 1.227)          | 750m                           | 500m                                |
| 821       | 820μ  | 1.64 ( 1.26)     | 600m                | 1.24 ( 950m)            | 750m                |                         |                                |                                     |
| 102       | 1.0m  | 1.82 ( 1.40)     | 550m                | 1.50 ( 1.15)            | 700m                | 2.388 ( 1.910)          | 600m                           | 400m                                |

## Measuring Freq. (L) インダクタンス測定周波数(L)

CDRH127 1.2μH - 7.6μH (100kHz), 10μH - 1.0mH (1kHz)

CDRH127/LD 1.0μH - 7.4μH (100kHz), 10μH - 1.0mH (1kHz)

CDRR157 100kHz

## Tolerance of Inductance インダクタンス公差

CDRH127 1.2μH - 7.6μH  $\pm \frac{+40\%}{-20\%}$  (N), 10μH - 1.0mH  $\pm 20\%$  (M)CDRH127/LD 1.0μH - 7.4μH  $\pm 30\%$  (M), 10μH - 1.0mH  $\pm 20\%$  (M)CDRR157 1.3μH - 1.0mH  $\pm 20\%$  (M)

## Rated Current 定格電流とは

5 It is either the inductance is 25% lower than its nominal value in D.C. saturation characteristics or temperature rise becomes  $\Delta T=40$  ( $T_a=20$ ), whichever is lower.5 直流重畳特性において、定格電流を流した時、インダクタンスが公称インダクタンスの75%以上となる電流値もしくは、コイルの発熱が $\Delta T=40$  以下となる電流のどちらか少ない方の値とする。

(Ta=20 )

## Other その他

A Saturation Rated Current : The current when the inductance becomes 10% lower than its initial value.(Ta=20 )

A 直流重畳許容電流 : 直流重畳許容電流を流した時、インダクタンスが初期値の90%以上となる電流値とする。(Ta=20 )

Temperature Rise Current (Typ.) : The actual current when temperature of coil becomes  $\Delta T=40$  (Ta=20 )温度上昇実力電流 : 直流電流を流した時、コイルの温度上昇が $\Delta T=40$  となる電流の実力値とする。(Ta=20 )