

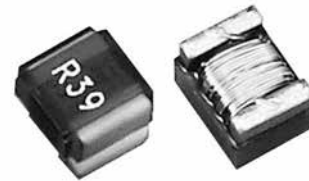


## SMDCHGR SERIES

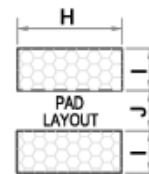
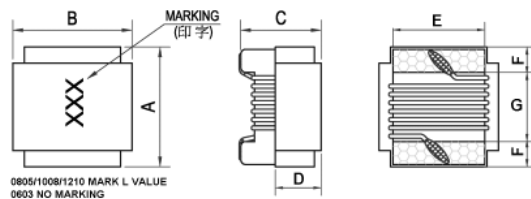
### MINIATURE SMD CHIP INDUCTORS

#### Applications :

- Pagers, Cordless phone.
- High Freq. Communication Products.
- GPS(Global Position System).



#### Shape and Dimensions (Dimensions are in mm) :



| Item  | A Max | B Max | C Max | D    | E    | F    | G    |
|-------|-------|-------|-------|------|------|------|------|
| 0402S | 1.19  | 0.70  | 0.66  | 0.25 | 0.51 | 0.23 | 0.56 |
| 0603  | 1.80  | 1.12  | 1.02  | 0.38 | 0.76 | 0.33 | 0.86 |
| 0805  | 2.29  | 1.73  | 1.52  | 0.51 | 1.27 | 0.51 | 1.02 |
| 1008  | 2.92  | 2.79  | 2.10  | 0.51 | 2.03 | 0.51 | 1.52 |
| 1210  | 3.56  | 2.92  | 2.23  | 0.51 | 2.10 | 0.51 | 2.03 |

| Item  | H    | I    | J    |
|-------|------|------|------|
| 0402S | 0.66 | 0.36 | 0.46 |
| 0603  | 1.02 | 0.64 | 0.64 |
| 0805  | 1.78 | 1.02 | 0.76 |
| 1008  | 2.54 | 1.02 | 1.27 |
| 1210  | 2.54 | 1.02 | 1.78 |

#### Features :

- Miniature SMD chip inductors designed especially for the need of high frequency applications.
- The ceramic construction delivers the highest possible SRF's and Q values.
- The non-magnetic coilform also assures the utmost In thermal stability, predictability, and batch consistency.
- Their ferrite core inductors have lower DCR and higher current ratings. The inductance values from 1.2 to 10uH.

#### Characteristics :

- Rated Current: The current when temperature of coil increases up to Max.  $\Delta T = 15^{\circ}\text{C}$ . ( $T_a = 20^{\circ}\text{C}$ )
- Operating temp:  $-40^{\circ}\text{C}$  to  $125^{\circ}\text{C}$

#### Product Identification :

**SMD CH G R 1008 - 47N J**  
(1) (2) (3) (4) (5) (6) (7)

- (1) Type : Surface Mount Devices.
- (2) Material: CH : Ceramic.
- (3) Terminal G : with Gold wraparound.
- (4) Packaging R : Tape and Reel.
- (5) Dimension: L=0.1 Inch W=0.08 Inch.
- (6) Inductance : 47N for 47 nH.
- (7) Inductance tolerance :  
G:  $\pm 2\%$ ; J:  $\pm 5\%$ ; K:  $\pm 10\%$ ; M:  $\pm 20\%$ .

#### Test equipments :

- L&Q&SRF: Agilent E4991A RF Impedance analyzer. with Agilent 16197A test fixture.
- DCR: Milli-ohm meter.
- Electrical specifications at  $25^{\circ}\text{C}$ .



● **SMDCHGR0402S series**

| Part No.          | Inductance<br>L<br>(nH) | Tolerance<br>(±%) | Q<br>Min. | Test freq.<br>(MHz)<br>L&Q | SRF<br>(MHz)<br>Min. | DCR<br>(Ω)<br>Max. | Rated<br>Current<br>(mA) Max |
|-------------------|-------------------------|-------------------|-----------|----------------------------|----------------------|--------------------|------------------------------|
| SMDCHGR0402S-1N0□ | 1.0                     | 5 , 10            | 16        | 250                        | 12700                | 0.045              | 1360                         |
| SMDCHGR0402S-1N9□ | 1.9                     | 5 , 10            | 16        | 250                        | 11300                | 0.070              | 1040                         |
| SMDCHGR0402S-2N0□ | 2.0                     | 5 , 10            | 16        | 250                        | 11100                | 0.070              | 1040                         |
| SMDCHGR0402S-2N2□ | 2.2                     | 5 , 10            | 19        | 250                        | 10800                | 0.070              | 960                          |
| SMDCHGR0402S-2N4□ | 2.4                     | 5 , 10            | 15        | 250                        | 10500                | 0.068              | 790                          |
| SMDCHGR0402S-2N7□ | 2.7                     | 5 , 10            | 16        | 250                        | 10400                | 0.120              | 640                          |
| SMDCHGR0402S-3N3□ | 3.3                     | 5 , 10            | 19        | 250                        | 7000                 | 0.066              | 840                          |
| SMDCHGR0402S-3N9□ | 3.9                     | 5 , 10            | 19        | 250                        | 6000                 | 0.066              | 840                          |
| SMDCHGR0402S-4N3□ | 4.3                     | 5 , 10            | 18        | 250                        | 6000                 | 0.091              | 700                          |
| SMDCHGR0402S-4N7□ | 4.7                     | 5 , 10            | 15        | 250                        | 4770                 | 0.130              | 640                          |
| SMDCHGR0402S-5N1□ | 5.1                     | 5 , 10            | 20        | 250                        | 4800                 | 0.083              | 800                          |
| SMDCHGR0402S-5N6□ | 5.6                     | 5 , 10            | 20        | 250                        | 4800                 | 0.083              | 760                          |
| SMDCHGR0402S-6N2□ | 6.2                     | 5 , 10            | 20        | 250                        | 4800                 | 0.083              | 760                          |
| SMDCHGR0402S-6N8□ | 6.8                     | 5 , 10            | 20        | 250                        | 4800                 | 0.083              | 680                          |
| SMDCHGR0402S-7N5□ | 7.5                     | 5 , 10            | 22        | 250                        | 4800                 | 0.100              | 680                          |
| SMDCHGR0402S-8N2□ | 8.2                     | 5 , 10            | 22        | 250                        | 4400                 | 0.100              | 680                          |
| SMDCHGR0402S-8N7□ | 8.7                     | 5 , 10            | 18        | 250                        | 4100                 | 0.200              | 480                          |
| SMDCHGR0402S-9N1□ | 9.1                     | 5 , 10            | 22        | 250                        | 4160                 | 0.100              | 680                          |
| SMDCHGR0402S-9N5□ | 9.5                     | 5 , 10            | 18        | 250                        | 4000                 | 0.200              | 480                          |
| SMDCHGR0402S-10N□ | 10                      | 5 , 10            | 21        | 250                        | 3900                 | 0.200              | 480                          |
| SMDCHGR0402S-11N□ | 11                      | 5 , 10            | 24        | 250                        | 3680                 | 0.120              | 640                          |
| SMDCHGR0402S-12N□ | 12                      | 5 , 10            | 24        | 250                        | 3600                 | 0.120              | 640                          |
| SMDCHGR0402S-15N□ | 15                      | 5 , 10            | 24        | 250                        | 3280                 | 0.170              | 560                          |
| SMDCHGR0402S-16N□ | 16                      | 5 , 10            | 24        | 250                        | 3100                 | 0.220              | 560                          |
| SMDCHGR0402S-18N□ | 18                      | 5 , 10            | 25        | 250                        | 3100                 | 0.230              | 420                          |
| SMDCHGR0402S-20N□ | 20                      | 5 , 10            | 25        | 250                        | 3000                 | 0.250              | 420                          |
| SMDCHGR0402S-22N□ | 22                      | 5 , 10            | 25        | 250                        | 2800                 | 0.300              | 400                          |
| SMDCHGR0402S-27N□ | 27                      | 5 , 10            | 24        | 250                        | 2480                 | 0.300              | 400                          |
| SMDCHGR0402S-33N□ | 33                      | 5 , 10            | 24        | 250                        | 2350                 | 0.400              | 400                          |
| SMDCHGR0402S-39N□ | 39                      | 5 , 10            | 25        | 250                        | 2100                 | 0.550              | 200                          |
| SMDCHGR0402S-43N□ | 43                      | 5 , 10            | 25        | 250                        | 2030                 | 0.810              | 100                          |
| SMDCHGR0402S-47N□ | 47                      | 5 , 10            | 20        | 250                        | 2100                 | 0.830              | 150                          |
| SMDCHGR0402S-56N□ | 56                      | 5 , 10            | 22        | 250                        | 1760                 | 0.970              | 100                          |
| SMDCHGR0402S-68N□ | 68                      | 5 , 10            | 22        | 250                        | 1620                 | 1.120              | 100                          |
| SMDCHGR0402S-82N□ | 82                      | 5 , 10            | 20        | 250                        | 1260                 | 1.550              | 50                           |



● **SMDCHGR0603 series**

| Part No.         | Inductance<br>L<br>(nH) | Tolerance<br>(±%) | Q<br>Min. | Test Freq.<br>(MHz)<br>L&Q | SRF<br>(MHz)<br>Min. | DCR<br>(Ω)<br>Max. | Rated<br>Current<br>(mA) Max |
|------------------|-------------------------|-------------------|-----------|----------------------------|----------------------|--------------------|------------------------------|
| SMDCHGR0603-1N6□ | 1.6                     | 10 , 20           | 24        | 250                        | 12500                | 0.030              | 700                          |
| SMDCHGR0603-1N8□ | 1.8                     | 10 , 20           | 16        | 250                        | 12500                | 0.045              | 700                          |
| SMDCHGR0603-3N6□ | 3.6                     | 10 , 20           | 22        | 250                        | 5900                 | 0.063              | 700                          |
| SMDCHGR0603-3N9□ | 3.9                     | 5, 10, 20         | 22        | 250                        | 6900                 | 0.080              | 700                          |
| SMDCHGR0603-4N7□ | 4.7                     | 5, 10, 20         | 20        | 250                        | 5800                 | 0.116              | 700                          |
| SMDCHGR0603-5N1□ | 5.1                     | 5, 10, 20         | 20        | 250                        | 5700                 | 0.140              | 700                          |
| SMDCHGR0603-6N8□ | 6.8                     | 5, 10, 20         | 27        | 250                        | 5800                 | 0.110              | 700                          |
| SMDCHGR0603-7N5□ | 7.5                     | 5, 10, 20         | 28        | 250                        | 4800                 | 0.106              | 700                          |
| SMDCHGR0603-8N2□ | 8.2                     | 5, 10, 20         | 28        | 250                        | 4700                 | 0.120              | 700                          |
| SMDCHGR0603-9N5□ | 9.5                     | 5, 10, 20         | 28        | 250                        | 5400                 | 0.150              | 700                          |
| SMDCHGR0603-10N□ | 10                      | 2, 5, 10          | 31        | 250                        | 4800                 | 0.130              | 700                          |
| SMDCHGR0603-11N□ | 11                      | 2, 5, 10          | 33        | 250                        | 4000                 | 0.130              | 700                          |
| SMDCHGR0603-12N□ | 12                      | 2, 5, 10          | 35        | 250                        | 4000                 | 0.130              | 700                          |
| SMDCHGR0603-15N□ | 15                      | 2, 5, 10          | 35        | 250                        | 4000                 | 0.170              | 700                          |
| SMDCHGR0603-16N□ | 16                      | 2, 5, 10          | 34        | 250                        | 3300                 | 0.160              | 700                          |
| SMDCHGR0603-18N□ | 18                      | 2, 5, 10          | 35        | 250                        | 3100                 | 0.170              | 700                          |
| SMDCHGR0603-22N□ | 22                      | 2, 5, 10          | 38        | 250                        | 3000                 | 0.190              | 700                          |
| SMDCHGR0603-24N□ | 24                      | 2, 5, 10          | 37        | 250                        | 2650                 | 0.190              | 700                          |
| SMDCHGR0603-27N□ | 27                      | 2, 5, 10          | 40        | 250                        | 2800                 | 0.220              | 600                          |
| SMDCHGR0603-30N□ | 30                      | 2, 5, 10          | 37        | 250                        | 2250                 | 0.220              | 600                          |
| SMDCHGR0603-33N□ | 33                      | 2, 5, 10          | 40        | 250                        | 2300                 | 0.220              | 600                          |
| SMDCHGR0603-36N□ | 36                      | 2, 5, 10          | 38        | 250                        | 2080                 | 0.250              | 600                          |
| SMDCHGR0603-39N□ | 39                      | 2, 5, 10          | 40        | 250                        | 2200                 | 0.250              | 600                          |
| SMDCHGR0603-43N□ | 43                      | 2, 5, 10          | 39        | 250                        | 2000                 | 0.280              | 600                          |
| SMDCHGR0603-47N□ | 47                      | 2, 5, 10          | 38        | 200                        | 2000                 | 0.280              | 600                          |
| SMDCHGR0603-56N□ | 56                      | 2, 5, 10          | 38        | 200                        | 1900                 | 0.310              | 600                          |
| SMDCHGR0603-68N□ | 68                      | 2, 5, 10          | 37        | 200                        | 1700                 | 0.340              | 600                          |
| SMDCHGR0603-72N□ | 72                      | 2, 5, 10          | 34        | 150                        | 1700                 | 0.490              | 400                          |
| SMDCHGR0603-82N□ | 82                      | 2, 5, 10          | 34        | 150                        | 1700                 | 0.540              | 400                          |
| SMDCHGR0603-R10□ | 100                     | 2, 5, 10          | 34        | 150                        | 1400                 | 0.580              | 400                          |
| SMDCHGR0603-R11□ | 110                     | 2, 5, 10          | 32        | 150                        | 1350                 | 0.610              | 300                          |
| SMDCHGR0603-R12□ | 120                     | 2, 5, 10          | 32        | 150                        | 1300                 | 0.750              | 300                          |
| SMDCHGR0603-R15□ | 150                     | 2, 5, 10          | 28        | 150                        | 990                  | 0.920              | 280                          |
| SMDCHGR0603-R18□ | 180                     | 2, 5, 10          | 25        | 100                        | 990                  | 1.350              | 240                          |
| SMDCHGR0603-R22□ | 220                     | 2, 5, 10          | 25        | 100                        | 900                  | 2.100              | 200                          |
| SMDCHGR0603-R27□ | 270                     | 5, 10, 20         | 24        | 100                        | 520                  | 2.800              | 170                          |



● **SMDCHGR0805 series**

| Part No.         | Inductance<br>L<br>(nH) | Tolerance<br>(±%) | Q<br>Min. | Test Freq.<br>(MHz)<br>L&Q | SRF<br>(MHz)<br>Min. | DCR<br>(Ω)<br>Max. | Rated<br>Current<br>(mA) Max |
|------------------|-------------------------|-------------------|-----------|----------------------------|----------------------|--------------------|------------------------------|
| SMDCHGR0805-2N2□ | 2.2                     | 10 , 20           | 15        | 250&1500                   | 6000                 | 0.08               | 600                          |
| SMDCHGR0805-2N7□ | 2.7                     | 10 , 20           | 50        | 250&1500                   | 6000                 | 0.08               | 600                          |
| SMDCHGR0805-3N3□ | 3.3                     | 10 , 20           | 35        | 250&1500                   | 6000                 | 0.08               | 600                          |
| SMDCHGR0805-5N6□ | 5.6                     | 5, 10, 20         | 50        | 250&1000                   | 5500                 | 0.10               | 600                          |
| SMDCHGR0805-6N8□ | 6.8                     | 5, 10, 20         | 50        | 250&1000                   | 5500                 | 0.11               | 600                          |
| SMDCHGR0805-8N2□ | 8.2                     | 5, 10, 20         | 50        | 250&500                    | 4700                 | 0.12               | 600                          |
| SMDCHGR0805-10N□ | 10                      | 2, 5, 10          | 50        | 250&500                    | 4300                 | 0.14               | 600                          |
| SMDCHGR0805-11N□ | 11                      | 2, 5, 10          | 50        | 250&500                    | 4000                 | 0.15               | 600                          |
| SMDCHGR0805-12N□ | 12                      | 2, 5, 10          | 50        | 250&500                    | 4000                 | 0.15               | 600                          |
| SMDCHGR0805-15N□ | 15                      | 5, 10, 20         | 50        | 250&500                    | 3400                 | 0.17               | 600                          |
| SMDCHGR0805-18N□ | 18                      | 2, 5, 10          | 50        | 250&500                    | 3300                 | 0.20               | 600                          |
| SMDCHGR0805-22N□ | 22                      | 2, 5, 10          | 55        | 250&500                    | 2600                 | 0.22               | 500                          |
| SMDCHGR0805-27N□ | 27                      | 2, 5, 10          | 55        | 250&500                    | 2500                 | 0.25               | 500                          |
| SMDCHGR0805-33N□ | 33                      | 2, 5, 10          | 60        | 250&500                    | 2050                 | 0.27               | 500                          |
| SMDCHGR0805-39N□ | 39                      | 2, 5, 10          | 60        | 250&500                    | 2000                 | 0.29               | 500                          |
| SMDCHGR0805-47N□ | 47                      | 2, 5, 10          | 60        | 200&500                    | 1650                 | 0.31               | 500                          |
| SMDCHGR0805-56N□ | 56                      | 2, 5, 10          | 60        | 200&500                    | 1550                 | 0.34               | 500                          |
| SMDCHGR0805-68N□ | 68                      | 2, 5, 10          | 60        | 200&500                    | 1450                 | 0.38               | 500                          |
| SMDCHGR0805-82N□ | 82                      | 2, 5, 10          | 60        | 150&500                    | 1300                 | 0.42               | 400                          |
| SMDCHGR0805-R10□ | 100                     | 2, 5, 10          | 60        | 150&500                    | 1200                 | 0.46               | 400                          |
| SMDCHGR0805-R12□ | 120                     | 2, 5, 10          | 50        | 150&250                    | 1100                 | 0.51               | 400                          |
| SMDCHGR0805-R15□ | 150                     | 2, 5, 10          | 50        | 100&250                    | 920                  | 0.56               | 400                          |
| SMDCHGR0805-R18□ | 180                     | 2, 5, 10          | 50        | 100&250                    | 870                  | 0.64               | 400                          |
| SMDCHGR0805-R22□ | 220                     | 2, 5, 10          | 50        | 100&250                    | 850                  | 0.70               | 400                          |
| SMDCHGR0805-R27□ | 270                     | 2, 5, 10          | 48        | 100&250                    | 650                  | 1.10               | 350                          |
| SMDCHGR0805-R33□ | 330                     | 2, 5, 10          | 48        | 100&250                    | 600                  | 1.40               | 310                          |
| SMDCHGR0805-R39□ | 390                     | 2, 5, 10          | 48        | 100&250                    | 560                  | 1.50               | 290                          |
| SMDCHGR0805-R47□ | 470                     | 2, 5, 10          | 33        | 50&100                     | 375                  | 1.76               | 250                          |
| SMDCHGR0805-R56□ | 560                     | 5, 10, 20         | 23        | 25&50                      | 340                  | 1.90               | 230                          |
| SMDCHGR0805-R68□ | 680                     | 5, 10, 20         | 23        | 25&50                      | 188                  | 2.20               | 190                          |
| SMDCHGR0805-R82□ | 820                     | 5, 10, 20         | 23        | 25&50                      | 215                  | 2.35               | 180                          |
| SMDCHGR0805-1R0□ | 1000                    | 5, 10, 20         | 20        | 25&50                      | 200                  | 2.40               | 170                          |
| SMDCHGR0805-1R5□ | 1500                    | 5, 10, 20         | 18        | 7.9&50                     | 170                  | 2.80               | 160                          |



● **SMDCHGR1008 series**

| Part No.         | Inductance<br>L<br>(nH) | Tolerance<br>(±%) | Q<br>Min. | Test Freq.<br>(MHz)<br>L&Q | SRF<br>(MHz)<br>Min. | DCR<br>(Ω)<br>Max. | Rated<br>Current<br>(mA) Max |
|------------------|-------------------------|-------------------|-----------|----------------------------|----------------------|--------------------|------------------------------|
| SMDCHGR1008-10N□ | 10                      | 2, 5, 10          | 50        | 50&500                     | 4100                 | 0.08               | 1000                         |
| SMDCHGR1008-12N□ | 12                      | 2, 5, 10          | 50        | 50&500                     | 3300                 | 0.09               | 1000                         |
| SMDCHGR1008-15N□ | 15                      | 2, 5, 10          | 50        | 50&500                     | 2500                 | 0.15               | 1000                         |
| SMDCHGR1008-18N□ | 18                      | 2, 5, 10          | 50        | 50&350                     | 2500                 | 0.11               | 1000                         |
| SMDCHGR1008-22N□ | 22                      | 2, 5, 10          | 55        | 50&350                     | 2400                 | 0.12               | 1000                         |
| SMDCHGR1008-27N□ | 27                      | 2, 5, 10          | 55        | 50&350                     | 1600                 | 0.13               | 1000                         |
| SMDCHGR1008-33N□ | 33                      | 2, 5, 10          | 60        | 50&350                     | 1600                 | 0.14               | 1000                         |
| SMDCHGR1008-39N□ | 39                      | 2, 5, 10          | 60        | 50&350                     | 1500                 | 0.15               | 1000                         |
| SMDCHGR1008-47N□ | 47                      | 2, 5, 10          | 65        | 50&350                     | 1500                 | 0.16               | 1000                         |
| SMDCHGR1008-56N□ | 56                      | 2, 5, 10          | 65        | 50&350                     | 1300                 | 0.18               | 1000                         |
| SMDCHGR1008-68N□ | 68                      | 2, 5, 10          | 65        | 50&350                     | 1300                 | 0.20               | 1000                         |
| SMDCHGR1008-82N□ | 82                      | 2, 5, 10          | 60        | 50&350                     | 1000                 | 0.22               | 1000                         |
| SMDCHGR1008-R10□ | 100                     | 2, 5, 10          | 60        | 25&350                     | 1000                 | 0.56               | 650                          |
| SMDCHGR1008-R12□ | 120                     | 2, 5, 10          | 60        | 25&350                     | 950                  | 0.63               | 650                          |
| SMDCHGR1008-R15□ | 150                     | 2, 5, 10          | 45        | 25&100                     | 850                  | 0.70               | 580                          |
| SMDCHGR1008-R18□ | 180                     | 5, 10, 20         | 45        | 25&100                     | 750                  | 0.77               | 620                          |
| SMDCHGR1008-R22□ | 220                     | 2, 5, 10          | 45        | 25&100                     | 660                  | 0.84               | 500                          |
| SMDCHGR1008-R27□ | 270                     | 2, 5, 10          | 45        | 25&100                     | 600                  | 0.91               | 500                          |
| SMDCHGR1008-R33□ | 330                     | 2, 5, 10          | 45        | 25&100                     | 570                  | 1.05               | 450                          |
| SMDCHGR1008-R39□ | 390                     | 2, 5, 10          | 45        | 25&100                     | 500                  | 1.12               | 470                          |
| SMDCHGR1008-R47□ | 470                     | 2, 5, 10          | 45        | 25&100                     | 450                  | 1.19               | 470                          |
| SMDCHGR1008-R56□ | 560                     | 2, 5, 10          | 45        | 25&100                     | 415                  | 1.33               | 400                          |
| SMDCHGR1008-R68□ | 680                     | 2, 5, 10          | 45        | 25&100                     | 375                  | 1.47               | 400                          |
| SMDCHGR1008-R82□ | 820                     | 5, 10, 20         | 45        | 25&100                     | 320                  | 1.61               | 400                          |
| SMDCHGR1008-1R0□ | 1000                    | 2, 5, 10          | 35        | 25&50                      | 290                  | 1.75               | 370                          |
| SMDCHGR1008-1R2□ | 1200                    | 2, 5, 10          | 35        | 7.9&50                     | 250                  | 2.00               | 310                          |
| SMDCHGR1008-1R5□ | 1500                    | 5, 10, 20         | 28        | 7.9&50                     | 200                  | 2.30               | 330                          |
| SMDCHGR1008-1R8□ | 1800                    | 5, 10, 20         | 28        | 7.9&50                     | 160                  | 2.60               | 300                          |
| SMDCHGR1008-2R2□ | 2200                    | 5, 10, 20         | 25        | 7.9&50                     | 98                   | 2.80               | 280                          |
| SMDCHGR1008-2R7□ | 2700                    | 5, 10, 20         | 22        | 7.9&25                     | 80                   | 3.20               | 290                          |
| SMDCHGR1008-3R3□ | 3300                    | 5, 10, 20         | 22        | 7.9&25                     | 70                   | 3.40               | 290                          |
| SMDCHGR1008-3R9□ | 3900                    | 5, 10, 20         | 20        | 7.9&25                     | 60                   | 3.60               | 260                          |
| SMDCHGR1008-4R7□ | 4700                    | 5, 10, 20         | 18        | 7.9&25                     | 60                   | 4.00               | 260                          |
| SMDCHGR1008-5R6□ | 5600                    | 5, 10, 20         | 20        | 7.9&7.9                    | 55                   | 6.80               | 190                          |
| SMDCHGR1008-6R8□ | 6800                    | 5, 10, 20         | 20        | 7.9&7.9                    | 50                   | 7.50               | 180                          |



● **SMDCHGR1210 series**

| Part No.         | Inductance<br>L<br>(nH) | Toleranc<br>(±%) | Q<br>Min. | Test<br>(MHz)<br>L&Q | SRF<br>(MHz)<br>Min. | DCR<br>(Ω)<br>Max. | Rated<br>Current<br>(mA) Max |
|------------------|-------------------------|------------------|-----------|----------------------|----------------------|--------------------|------------------------------|
| SMDCHGR1210-10N□ | 10                      | 2, 5, 10         | 50        | 50&500               | 4100                 | 0.08               | 1000                         |
| SMDCHGR1210-12N□ | 12                      | 2, 5, 10         | 50        | 50&500               | 3300                 | 0.09               | 1000                         |
| SMDCHGR1210-15N□ | 15                      | 2, 5, 10         | 50        | 50&500               | 2500                 | 0.10               | 1000                         |
| SMDCHGR1210-18N□ | 18                      | 2, 5, 10         | 50        | 50&350               | 2500                 | 0.11               | 1000                         |
| SMDCHGR1210-22N□ | 22                      | 2, 5, 10         | 55        | 50&350               | 2000                 | 0.12               | 1000                         |
| SMDCHGR1210-27N□ | 27                      | 2, 5, 10         | 55        | 50&500               | 1600                 | 0.13               | 1000                         |
| SMDCHGR1210-33N□ | 33                      | 2, 5, 10         | 60        | 50&350               | 1600                 | 0.14               | 1000                         |
| SMDCHGR1210-39N□ | 39                      | 2, 5, 10         | 60        | 50&350               | 1500                 | 0.15               | 1000                         |
| SMDCHGR1210-47N□ | 47                      | 2, 5, 10         | 65        | 50&350               | 1500                 | 0.16               | 1000                         |
| SMDCHGR1210-56N□ | 56                      | 2, 5, 10         | 65        | 50&350               | 1300                 | 0.18               | 1000                         |
| SMDCHGR1210-68N□ | 68                      | 2, 5, 10         | 65        | 50&350               | 1300                 | 0.20               | 1000                         |
| SMDCHGR1210-82N□ | 82                      | 2, 5, 10         | 60        | 50&350               | 1000                 | 0.22               | 1000                         |
| SMDCHGR1210-R10□ | 100                     | 2, 5, 10         | 60        | 25&350               | 1000                 | 0.24               | 980                          |
| SMDCHGR1210-R12□ | 120                     | 2, 5, 10         | 60        | 25&350               | 950                  | 0.26               | 920                          |
| SMDCHGR1210-R15□ | 150                     | 2, 5, 10         | 45        | 25&100               | 850                  | 0.29               | 870                          |
| SMDCHGR1210-R18□ | 180                     | 2, 5, 10         | 45        | 25&100               | 750                  | 0.31               | 830                          |
| SMDCHGR1210-R22□ | 220                     | 2, 5, 10         | 45        | 25&100               | 700                  | 0.35               | 790                          |
| SMDCHGR1210-R27□ | 270                     | 2, 5, 10         | 45        | 25&100               | 600                  | 0.42               | 730                          |
| SMDCHGR1210-R33□ | 330                     | 2, 5, 10         | 45        | 25&100               | 570                  | 0.49               | 680                          |
| SMDCHGR1210-R39□ | 390                     | 2, 5, 10         | 45        | 25&100               | 500                  | 0.54               | 640                          |
| SMDCHGR1210-R47□ | 470                     | 2, 5, 10         | 45        | 25&100               | 450                  | 0.60               | 610                          |
| SMDCHGR1210-R56□ | 560                     | 5, 10, 20        | 45        | 25&100               | 415                  | 1.00               | 460                          |
| SMDCHGR1210-R68□ | 680                     | 2, 5, 10         | 45        | 25&100               | 375                  | 1.15               | 420                          |
| SMDCHGR1210-R82□ | 820                     | 2, 5, 10         | 45        | 25&100               | 350                  | 1.93               | 350                          |
| SMDCHGR1210-1R0□ | 1000                    | 2, 5, 10         | 45        | 25&100               | 290                  | 2.16               | 330                          |
| SMDCHGR1210-1R2□ | 1200                    | 2, 5, 10         | 45        | 7.9&100              | 250                  | 2.38               | 310                          |
| SMDCHGR1210-1R5□ | 1500                    | 2, 5, 10         | 35        | 7.9&50               | 200                  | 2.64               | 300                          |
| SMDCHGR1210-1R8□ | 1800                    | 2, 5, 10         | 30        | 7.9&50               | 160                  | 2.76               | 290                          |
| SMDCHGR1210-2R2□ | 2200                    | 2, 5, 10         | 25        | 7.9&50               | 160                  | 2.98               | 280                          |
| SMDCHGR1210-2R7□ | 2700                    | 2, 5, 10         | 22        | 7.9&50               | 140                  | 3.30               | 260                          |
| SMDCHGR1210-3R3□ | 3300                    | 5, 10, 20        | 22        | 7.9&25               | 110                  | 3.66               | 250                          |
| SMDCHGR1210-3R9□ | 3900                    | 5, 10, 20        | 22        | 7.9&7.9              | 100                  | 4.00               | 240                          |
| SMDCHGR1210-4R7□ | 4700                    | 5, 10, 20        | 22        | 7.9&7.9              | 90                   | 4.30               | 230                          |

\* Due to the limited space, the catalogue shows the typical specifications only. For more specific details ( characteristics graph, reliability, and others), kindly invite you to access 3L official website [www.3lcoil.com](http://www.3lcoil.com) for better known.