

**I FEATURES**

1. Open magnetic circuit construction
2. High rated current

**I APPLICATIONS**

1. Power supplies、DC-DC converters
2. TVs、VTR、computers
3. Computer peripherals
4. Telephones、AIR-Conditions
5. Home electric appliance
6. Electronic toy and games

**I 特性**

1. 開磁結構
2. 高額定電流

**I 用途**

1. 電源供應器、直流交換器
2. 電視、磁帶錄像機、電腦
3. 電腦外圍設備
4. 電話、空調、
5. 家用電子器具
6. 電動玩具及電動遊戲

**I DIMENSION CODE**

| TYPE   | ΦA(MAX) | B(MAX) | C       | D(MIN) | E         |
|--------|---------|--------|---------|--------|-----------|
| DR0406 | 5.0     | 8.0    | 2.0±0.5 | 10     | 0.55±0.05 |
| DR0608 | 7.0     | 10.0   | 2.5±0.5 | 10     | 0.65±0.05 |
| DR0810 | 9.0     | 12.5   | 5.0±1.0 | 10     | 0.65±0.05 |
| DR1012 | 12.0    | 15.0   | 6.0±1.0 | 10     | 0.80±0.05 |

**I PART NUMBERING SYSTEM(品名規定)**

|                |                    |    |                          |                        |
|----------------|--------------------|----|--------------------------|------------------------|
| $\frac{DR}{1}$ | $\frac{10\ 12}{2}$ | —— | $\frac{100}{3}$          | $\frac{K}{4}$          |
| DRUM           | DIMENSIONS         |    | INDUCTANCE               | TOLERANCE CODE         |
| INDUCTOR       | A、B DIM            |    | 10*10 <sup>0</sup> =10uH | J:±5% K: ±10% L:±15%   |
|                |                    |    |                          | M:±20% P: ±25% N: ±30% |
| 工字形电感          | 尺寸                 |    | 電感值                      | 公差                     |

## I ELECTRICAL SPECIFICATIONS

| PART NO     | INDUCTANCE<br>@1KHZ/0.25V<br>( $\mu$ H) | Q<br>(MIN) | TEST<br>FREQ<br>(MHZ) | DC<br>RESISTANCE<br>( $\Omega$ )MAX | RATED DC<br>CURRENT<br>(A)MAX | S.F.R<br>FREQ<br>(MHZ)MIN. |
|-------------|-----------------------------------------|------------|-----------------------|-------------------------------------|-------------------------------|----------------------------|
| DR0406-1R0M | 1.0                                     | 85         | 7.96                  | 0.014                               | 3.5                           | 120                        |
| DR0406-1R5M | 1.5                                     | 85         | 7.96                  | 0.02                                | 3.0                           | 90                         |
| DR0406-2R2M | 2.2                                     | 85         | 7.96                  | 0.02                                | 2.5                           | 55                         |
| DR0406-3R3M | 3.3                                     | 85         | 7.96                  | 0.03                                | 2.0                           | 50                         |
| DR0406-4R7M | 4.7                                     | 80         | 7.96                  | 0.04                                | 1.7                           | 30                         |
| DR0406-6R8M | 6.8                                     | 75         | 7.96                  | 0.06                                | 1.3                           | 25                         |
| DR0406-100K | 10                                      | 70         | 2.52                  | 0.08                                | 1.0                           | 22                         |
| DR0406-120K | 12                                      | 70         | 2.52                  | 0.10                                | 0.95                          | 20                         |
| DR0406-150K | 15                                      | 65         | 2.52                  | 0.11                                | 0.90                          | 16                         |
| DR0406-180K | 18                                      | 50         | 2.52                  | 0.11                                | 0.80                          | 14                         |
| DR0406-220K | 22                                      | 50         | 2.52                  | 0.12                                | 0.70                          | 14                         |
| DR0406-270K | 27                                      | 50         | 2.52                  | 0.14                                | 0.60                          | 12                         |
| DR0406-330K | 33                                      | 50         | 2.52                  | 0.16                                | 0.55                          | 10                         |
| DR0406-390K | 39                                      | 45         | 2.52                  | 0.18                                | 0.50                          | 9.0                        |
| DR0406-470K | 47                                      | 45         | 2.52                  | 0.20                                | 0.50                          | 9.0                        |
| DR0406-560K | 56                                      | 35         | 2.52                  | 0.22                                | 0.45                          | 8.0                        |
| DR0406-680K | 68                                      | 35         | 2.52                  | 0.30                                | 0.45                          | 8.0                        |
| DR0406-820K | 82                                      | 35         | 2.52                  | 0.34                                | 0.40                          | 8.0                        |
| DR0406-101K | 100                                     | 20         | 0.796                 | 0.36                                | 0.40                          | 7.0                        |
| DR0406-121K | 120                                     | 20         | 0.796                 | 0.44                                | 0.35                          | 6.0                        |
| DR0406-151K | 150                                     | 20         | 0.796                 | 0.52                                | 0.30                          | 5.5                        |
| DR0406-181K | 180                                     | 20         | 0.796                 | 0.65                                | 0.30                          | 5.0                        |
| DR0406-221K | 220                                     | 20         | 0.796                 | 0.75                                | 0.25                          | 4.5                        |
| DR0406-271K | 270                                     | 25         | 0.796                 | 1.00                                | 0.24                          | 4.0                        |
| DR0406-331K | 330                                     | 25         | 0.796                 | 1.30                                | 0.20                          | 3.5                        |
| DR0406-391K | 390                                     | 25         | 0.796                 | 1.40                                | 0.18                          | 3.0                        |
| DR0406-471K | 470                                     | 25         | 0.796                 | 1.60                                | 0.16                          | 3.0                        |
| DR0406-561K | 560                                     | 25         | 0.796                 | 2.00                                | 0.16                          | 2.7                        |
| DR0406-681K | 680                                     | 25         | 0.796                 | 2.30                                | 0.14                          | 2.5                        |
| DR0406-821K | 820                                     | 25         | 0.796                 | 2.70                                | 0.13                          | 2.4                        |
| DR0406-102K | 1000                                    | 50         | 0.252                 | 3.10                                | 0.12                          | 2.2                        |



## I ELECTRICAL SPECIFICATIONS

| PART NO     | INDUCTANCE<br>@1KHZ/0.25V<br>( $\mu$ H) | Q<br>(MIN) | TEST<br>FREQ<br>(MHZ) | DC<br>RESISTANCE<br>( $\Omega$ )MAX | RATED DC<br>CURRENT<br>(A)MAX | S.F.R<br>FREQ<br>(MHZ)MIN. |
|-------------|-----------------------------------------|------------|-----------------------|-------------------------------------|-------------------------------|----------------------------|
| DR0608-100K | 10                                      | 25         | 2.52                  | 0.09                                | 1.30                          | 16                         |
| DR0608-120K | 12                                      | 25         | 2.52                  | 0.10                                | 1.10                          | 15                         |
| DR0608-150K | 15                                      | 25         | 2.52                  | 0.11                                | 1.05                          | 13                         |
| DR0608-180K | 18                                      | 20         | 2.52                  | 0.12                                | 1.00                          | 12                         |
| DR0608-220K | 22                                      | 25         | 2.52                  | 0.12                                | 0.96                          | 11                         |
| DR0608-270K | 27                                      | 25         | 2.52                  | 0.17                                | 0.92                          | 10                         |
| DR0608-330K | 33                                      | 25         | 2.52                  | 0.19                                | 0.88                          | 8.8                        |
| DR0608-390K | 39                                      | 20         | 2.52                  | 0.22                                | 0.86                          | 8.4                        |
| DR0608-470K | 47                                      | 20         | 2.52                  | 0.23                                | 0.83                          | 8.2                        |
| DR0608-560K | 56                                      | 20         | 2.52                  | 0.29                                | 0.81                          | 7.9                        |
| DR0608-680K | 68                                      | 20         | 2.52                  | 0.37                                | 0.75                          | 7.0                        |
| DR0608-820K | 82                                      | 20         | 2.52                  | 0.39                                | 0.74                          | 6.5                        |
| DR0608-101K | 100                                     | 30         | 0.796                 | 0.44                                | 0.71                          | 5.7                        |
| DR0608-121K | 120                                     | 30         | 0.796                 | 0.64                                | 0.68                          | 5.2                        |
| DR0608-151K | 150                                     | 35         | 0.796                 | 0.73                                | 0.60                          | 4.7                        |
| DR0608-181K | 180                                     | 35         | 0.796                 | 0.82                                | 0.54                          | 4.2                        |
| DR0608-221K | 220                                     | 35         | 0.796                 | 0.92                                | 0.45                          | 3.7                        |
| DR0608-271K | 270                                     | 30         | 0.796                 | 1.30                                | 0.42                          | 3.5                        |
| DR0608-331K | 330                                     | 40         | 0.796                 | 1.50                                | 0.40                          | 3.2                        |
| DR0608-391K | 390                                     | 25         | 0.796                 | 1.80                                | 0.37                          | 2.9                        |
| DR0608-471K | 470                                     | 35         | 0.796                 | 2.30                                | 0.34                          | 2.4                        |
| DR0608-561K | 560                                     | 35         | 0.796                 | 3.00                                | 0.28                          | 2.2                        |
| DR0608-681K | 680                                     | 45         | 0.796                 | 3.25                                | 0.25                          | 2.0                        |
| DR0608-821K | 820                                     | 40         | 0.796                 | 4.16                                | 0.23                          | 1.6                        |
| DR0608-102K | 1000                                    | 80         | 0.252                 | 4.55                                | 0.21                          | 1.5                        |
| DR0608-122K | 1200                                    | 80         | 0.252                 | 5.20                                | 0.20                          | 1.4                        |
| DR0608-152K | 1500                                    | 75         | 0.252                 | 7.54                                | 0.18                          | 1.3                        |
| DR0608-182K | 1800                                    | 80         | 0.252                 | 7.54                                | 0.16                          | 1.2                        |
| DR0608-222K | 2200                                    | 75         | 0.252                 | 8.32                                | 0.15                          | 1.1                        |
| DR0608-272K | 2700                                    | 80         | 0.252                 | 9.62                                | 0.13                          | 1.0                        |
| DR0608-332K | 3300                                    | 80         | 0.252                 | 10.92                               | 0.13                          | 0.85                       |

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|-------------|-----------------------------------------|------------|-----------------------|-------------------------------------|-------------------------------|----------------------------|
| DR0810-1R0M | 1.0                                     | 90         | 7.96                  | 0.02                                | 3.4                           | 100                        |
| DR0810-1R2M | 1.2                                     | 90         | 7.96                  | 0.02                                | 3.4                           | 90                         |
| DR0810-1R5M | 1.5                                     | 95         | 7.96                  | 0.02                                | 3.3                           | 80                         |
| DR0810-1R8M | 1.8                                     | 95         | 7.96                  | 0.03                                | 3.0                           | 75                         |
| DR0810-2R2M | 2.2                                     | 100        | 7.96                  | 0.03                                | 3.0                           | 70                         |
| DR0810-2R7M | 2.7                                     | 110        | 7.96                  | 0.04                                | 3.0                           | 60                         |
| DR0810-3R3M | 3.3                                     | 110        | 7.96                  | 0.04                                | 2.9                           | 56                         |
| DR0810-3R9M | 3.9                                     | 110        | 7.96                  | 0.05                                | 2.9                           | 52                         |
| DR0810-4R7M | 4.7                                     | 110        | 7.96                  | 0.05                                | 2.6                           | 30                         |
| DR0810-5R6M | 5.6                                     | 110        | 7.96                  | 0.06                                | 2.5                           | 30                         |
| DR0810-6R8M | 6.8                                     | 90         | 7.96                  | 0.06                                | 2.0                           | 20                         |
| DR0810-8R2M | 8.2                                     | 80         | 7.96                  | 0.06                                | 1.6                           | 17                         |
| DR0810-100M | 10.0                                    | 90         | 2.52                  | 0.10                                | 1.4                           | 12                         |
| DR0810-120K | 12.0                                    | 90         | 2.52                  | 0.10                                | 1.3                           | 11                         |
| DR0810-150K | 15.0                                    | 90         | 2.52                  | 0.10                                | 1.2                           | 9.0                        |
| DR0810-180K | 18.0                                    | 80         | 2.52                  | 0.11                                | 1.1                           | 8.0                        |
| DR0810-220K | 22.0                                    | 70         | 2.52                  | 0.13                                | 1.0                           | 7.0                        |
| DR0810-270K | 27.0                                    | 70         | 2.52                  | 0.14                                | 0.9                           | 7.0                        |
| DR0810-330K | 33.0                                    | 70         | 2.52                  | 0.16                                | 0.8                           | 6.0                        |
| DR0810-390K | 39.0                                    | 70         | 2.52                  | 0.16                                | 0.7                           | 5.5                        |
| DR0810-470K | 47.0                                    | 70         | 2.52                  | 0.16                                | 0.7                           | 5.5                        |
| DR0810-680K | 68.0                                    | 60         | 2.52                  | 0.22                                | 0.6                           | 5.0                        |
| DR0810-820K | 82.0                                    | 60         | 2.52                  | 0.23                                | 0.5                           | 4.5                        |
| DR0810-101K | 100                                     | 60         | 2.52                  | 0.27                                | 0.4                           | 4.5                        |
| DR0810-121K | 120                                     | 40         | 0.796                 | 0.29                                | 0.4                           | 4.5                        |
| DR0810-151K | 150                                     | 40         | 0.796                 | 0.33                                | 0.35                          | 4.5                        |
| DR0810-181K | 180                                     | 40         | 0.796                 | 0.46                                | 0.35                          | 4.0                        |
| DR0810-221K | 220                                     | 40         | 0.796                 | 0.51                                | 0.30                          | 3.5                        |
| DR0810-271K | 270                                     | 40         | 0.796                 | 0.62                                | 0.25                          | 3.0                        |
| DR0810-331K | 330                                     | 30         | 0.796                 | 0.65                                | 0.25                          | 3.0                        |
| DR0810-391K | 390                                     | 30         | 0.796                 | 0.79                                | 0.20                          | 2.5                        |



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| PART NO     | INDUCTANCE<br>@1KHZ/0.25V<br>( $\mu$ H) | Q<br>(MIN) | TEST<br>FREQ<br>(MHZ) | DC<br>RESISTANCE<br>( $\Omega$ )MAX | RATED DC<br>CURRENT<br>(A)MAX | S.F.R<br>FREQ<br>(MHZ)MIN. |
|-------------|-----------------------------------------|------------|-----------------------|-------------------------------------|-------------------------------|----------------------------|
| DR1012-100K | 10                                      | 110        | 2.52                  | 0.04                                | 2.8                           | 24                         |
| DR1012-120K | 12                                      | 110        | 2.52                  | 0.04                                | 2.7                           | 18                         |
| DR1012-150K | 15                                      | 110        | 2.52                  | 0.05                                | 2.3                           | 11                         |
| DR1012-180K | 18                                      | 90         | 2.52                  | 0.06                                | 2.1                           | 8.4                        |
| DR1012-220K | 22                                      | 90         | 2.52                  | 0.07                                | 2.0                           | 9.2                        |
| DR1012-270K | 27                                      | 90         | 2.52                  | 0.10                                | 1.7                           | 7.1                        |
| DR1012-330K | 33                                      | 90         | 2.52                  | 0.12                                | 1.5                           | 7.1                        |
| DR1012-390K | 39                                      | 80         | 2.52                  | 0.12                                | 1.4                           | 6.9                        |
| DR1012-470K | 47                                      | 70         | 2.52                  | 0.13                                | 1.3                           | 6.0                        |
| DR1012-560K | 56                                      | 70         | 2.52                  | 0.14                                | 1.2                           | 5.7                        |
| DR1012-680K | 68                                      | 60         | 2.52                  | 0.15                                | 1.0                           | 5.4                        |
| DR1012-820K | 82                                      | 50         | 2.52                  | 0.16                                | 0.9                           | 4.6                        |
| DR1012-101K | 100                                     | 60         | 0.796                 | 0.25                                | 0.7                           | 4.0                        |
| DR1012-121K | 120                                     | 60         | 0.796                 | 0.28                                | 0.7                           | 3.6                        |
| DR1012-151K | 150                                     | 55         | 0.796                 | 0.32                                | 0.7                           | 3.1                        |
| DR1012-181K | 180                                     | 55         | 0.796                 | 0.47                                | 0.6                           | 2.8                        |
| DR1012-221K | 220                                     | 55         | 0.796                 | 0.53                                | 0.5                           | 2.5                        |
| DR1012-271K | 270                                     | 50         | 0.796                 | 0.60                                | 0.45                          | 2.4                        |
| DR1012-331K | 330                                     | 50         | 0.796                 | 0.85                                | 0.40                          | 2.0                        |
| DR1012-391K | 390                                     | 50         | 0.796                 | 0.95                                | 0.35                          | 2.1                        |
| DR1012-471K | 470                                     | 40         | 0.796                 | 1.1                                 | 0.35                          | 1.9                        |
| DR1012-561K | 560                                     | 30         | 0.796                 | 1.2                                 | 0.30                          | 1.8                        |
| DR1012-681K | 680                                     | 30         | 0.796                 | 1.3                                 | 0.25                          | 1.7                        |
| DR1012-821K | 820                                     | 30         | 0.796                 | 1.4                                 | 0.20                          | 1.5                        |
| DR1012-102K | 1000                                    | 70         | 0.252                 | 2.0                                 | 0.18                          | 1.1                        |
| DR1012-122K | 1200                                    | 70         | 0.252                 | 2.3                                 | 0.15                          | 1.0                        |
| DR1012-152K | 1500                                    | 70         | 0.252                 | 2.9                                 | 0.12                          | 1.0                        |
| DR1012-182K | 1800                                    | 70         | 0.252                 | 3.3                                 | 0.11                          | 0.9                        |
| DR1012-222K | 2200                                    | 70         | 0.252                 | 4.5                                 | 0.09                          | 0.7                        |
| DR1012-272K | 2700                                    | 70         | 0.252                 | 5.5                                 | 0.08                          | 0.7                        |
| DR1012-332K | 3300                                    | 60         | 0.252                 | 5.7                                 | 0.08                          | 0.6                        |

1. Inductance is measure with a LCR meter 4284A( Agilent) or equivalent
2. Maximum allowable DC current is that which causes a 10% inductance reduction form the initial value,or coil temperature to rise by 20℃, whichever is smaller.(Reference ambient temperature 20℃)
3. Self-resonant frequency is measured with a network analyzer model 3577\*, MS560J(Anritsu),or equivalent.
4. DC resistance is measured with a digital multimeter TR6871(Advantest) or equivalent.
5. Self-resonant frequency is for reference only. \* Agilent Technologies

