



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 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 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 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 ⁰ =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 @1KHZ/0.25V (μ H) | Q (MIN) | TEST FREQ (MHZ) | DC RESISTANCE (Ω)MAX | RATED DC CURRENT (A)MAX | S.F.R FREQ (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

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|-------------|---|------------|-----------------------|-------------------------------------|-------------------------------|----------------------------|
| 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 |

I ELECTRICAL SPECIFICATIONS

| PART NO | INDUCTANCE @1KHZ/0.25V (μ H) | Q (MIN) | TEST FREQ (MHZ) | DC RESISTANCE (Ω)MAX | RATED DC CURRENT (A)MAX | S.F.R FREQ (MHZ)MIN. |
|-------------|---|------------|-----------------------|-------------------------------------|-------------------------------|----------------------------|
| 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 |

I ELECTRICAL SPECIFICATIONS

| PART NO | INDUCTANCE @1KHZ/0.25V (μ H) | Q (MIN) | TEST FREQ (MHZ) | DC RESISTANCE (Ω)MAX | RATED DC CURRENT (A)MAX | S.F.R FREQ (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°C, whichever is smaller.(Reference ambient temperature 20°C)
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

