



Features (特长)

- Magnetically shielded construction  
(闭磁路构造设计)
- Compact and thin (轻便薄小)
- Large Current and Low DCR  
(大电流低直流阻抗)

Applications (用途)

- VTR, OA equipment, LCD television set, Notebook, portable communication equipments, DC/DC converters, etc.. (录放机、OA 仪器、液晶电视、笔记型计算机、小型通信机器、直流转换器等)

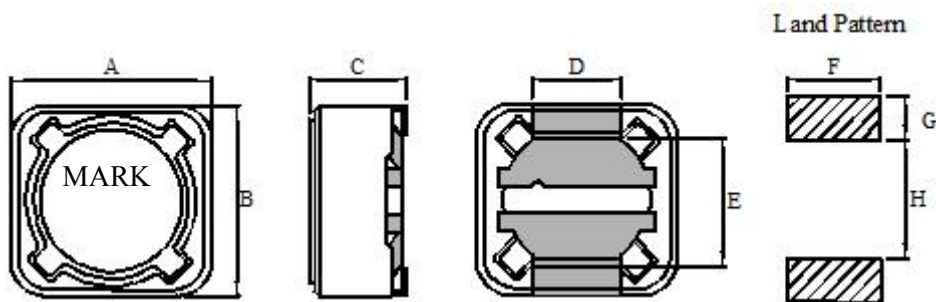
Product Identification (产品识别)

SDH73 — \_\_\_\_\_ (Ex. SDH73-100M)

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1. SMT Shielded Power Inductors (闭磁式功率电感)  
(SDH73/SDH74/SDH124/SDH125/SDH127/SDH129)
2. Inductance (电感值)
3. Tolerance (误差值) (参照表 K:10%, L:15%, M:20%, N:30%)

Configurations & Dimensions (结构图及规格尺寸)



Unit In: mm

| Type (型式) | A (max) | B (max) | C (max) | D ±0.2 | E ±0.2 | F   | G   | H   |
|-----------|---------|---------|---------|--------|--------|-----|-----|-----|
| SDH73     | 7.5     | 7.5     | 3.4     | 2.7    | 5.1    | 3.1 | 1.6 | 4.8 |
| SDH74     | 7.5     | 7.5     | 4.5     | 2.7    | 5.1    | 3.1 | 1.6 | 4.8 |
| SDH124    | 12.3    | 12.3    | 4.5     | 5.0    | 7.6    | 5.4 | 2.8 | 7.0 |
| SDH125    | 12.3    | 12.3    | 6.0     | 5.0    | 7.6    | 5.4 | 2.8 | 7.0 |
| SDH127    | 12.3    | 12.3    | 8.0     | 5.0    | 7.6    | 5.4 | 2.9 | 7.0 |
| SDH129    | 12.5    | 12.5    | 10.0    | 5.0    | 7.6    | 5.4 | 3.0 | 7.0 |

♣Design as Customer' s Requested Specifications. (可依客户特殊需求设计)

| Codes | L<br>(uH) | Tolerance | Test Freq.<br>(KHz) | DCR ( $\Omega$ ) max |       |       |       |       |        | IDC (A) max |      |      |      |      |      |      |
|-------|-----------|-----------|---------------------|----------------------|-------|-------|-------|-------|--------|-------------|------|------|------|------|------|------|
|       |           |           |                     | 73                   | 74    | 124   | 125   | 127   | 129    | 73          | 74   | 124  | 125  | 127  | 129  |      |
| 1R2   | 1.2       | N         | 100                 | 1                    | -     | -     | -     | -     | 0.0070 | -           | -    | -    | -    | -    | 9.80 | -    |
| 1R3   | 1.3       | N         | 100                 | 1                    | -     | -     | -     | 0.012 | -      | -           | -    | -    | -    | 8.00 | -    | -    |
| 1R5   | 1.5       | N         | 100                 | 1                    | -     | -     | -     | -     | -      | 0.0047      | -    | -    | -    | -    | -    | 16.0 |
| 2R1   | 2.1       | N         | 100                 | 1                    | -     | -     | -     | 0.014 | -      | -           | -    | -    | -    | 7.00 | -    | -    |
| 2R4   | 2.4       | N         | 100                 | 1                    | -     | -     | -     | -     | 0.0115 | 0.0057      | -    | -    | -    | -    | 8.00 | 15.0 |
| 3R1   | 3.1       | N         | 100                 | 1                    | -     | -     | -     | 0.017 | -      | -           | -    | -    | -    | 6.00 | -    | -    |
| 3R3   | 3.3       | N         | 100                 | 1                    | -     | -     | -     | -     | -      | 0.0086      | -    | -    | -    | -    | -    | 14.0 |
| 3R5   | 3.5       | N         | 100                 | 1                    | -     | -     | -     | -     | 0.0135 | -           | -    | -    | -    | -    | 7.50 | -    |
| 3R9   | 3.9       | N         | 100                 | 1                    | -     | -     | 0.015 | -     | -      | -           | -    | -    | 6.50 | -    | -    | -    |
| 4R4   | 4.4       | N         | 100                 | 1                    | -     | -     | -     | 0.020 | -      | -           | -    | -    | -    | 5.00 | -    | -    |
| 4R7   | 4.7       | N         | 100                 | 1                    | -     | -     | 0.018 | -     | 0.0158 | -           | -    | -    | 5.70 | -    | 6.80 | -    |
| 5R0   | 5.0       | N         | 100                 | 1                    | -     | -     | -     | -     | -      | 0.0105      | -    | -    | -    | -    | -    | 11.0 |
| 5R8   | 5.8       | N         | 100                 | 1                    | -     | -     | -     | 0.021 | -      | -           | -    | -    | -    | 4.40 | -    | -    |
| 6R1   | 6.1       | N         | 100                 | 1                    | -     | -     | -     | -     | 0.0176 | -           | -    | -    | -    | -    | 6.60 | -    |
| 6R8   | 6.8       | N         | 100                 | 1                    | -     | -     | 0.023 | -     | -      | 0.0132      | -    | -    | 4.90 | -    | -    | 10.0 |
| 7R5   | 7.5       | N         | 100                 | 1                    | -     | -     | -     | 0.024 | -      | -           | -    | -    | -    | 4.20 | -    | -    |
| 7R6   | 7.6       | N         | 100                 | 1                    | -     | -     | -     | -     | 0.0200 | -           | -    | -    | -    | -    | 5.90 | -    |
| 8R2   | 8.2       | N         | 100                 | 1                    | -     | -     | 0.026 | -     | -      | 0.0153      | -    | -    | 4.60 | -    | -    | 8.20 |
| 100   | 10        | M         | 100                 | 1                    | 0.072 | 0.049 | 0.028 | 0.025 | 0.0216 | 0.0180      | 1.68 | 1.84 | 4.50 | 4.00 | 5.40 | 7.50 |
| 120   | 12        | M         | 100                 | 1                    | 0.098 | 0.058 | 0.038 | 0.027 | 0.0243 | 0.0197      | 1.52 | 1.71 | 4.00 | 3.50 | 4.90 | 7.00 |
| 150   | 15        | M         | 100                 | 1                    | 0.130 | 0.081 | 0.050 | 0.030 | 0.0270 | 0.0242      | 1.33 | 1.47 | 3.20 | 3.30 | 4.50 | 6.00 |
| 180   | 18        | M         | 100                 | 1                    | 0.140 | 0.091 | 0.057 | 0.034 | 0.0392 | 0.0312      | 1.20 | 1.31 | 3.10 | 3.00 | 3.90 | 5.50 |
| 220   | 22        | M         | 100                 | 1                    | 0.190 | 0.110 | 0.066 | 0.036 | 0.0432 | 0.0390      | 1.07 | 1.23 | 2.90 | 2.80 | 3.60 | 5.00 |
| 270   | 27        | M         | 100                 | 1                    | 0.210 | 0.150 | 0.080 | 0.051 | 0.0459 | 0.0450      | 0.96 | 1.12 | 2.80 | 2.30 | 3.40 | 4.50 |
| 330   | 33        | M         | 100                 | 1                    | 0.240 | 0.170 | 0.097 | 0.057 | 0.0648 | 0.0500      | 0.91 | 0.96 | 2.70 | 2.10 | 3.00 | 4.00 |
| 390   | 39        | M         | 100                 | 1                    | 0.320 | 0.230 | 0.132 | 0.068 | 0.0729 | 0.0592      | 0.77 | 0.91 | 2.10 | 2.00 | 2.75 | 3.80 |
| 470   | 47        | M         | 100                 | 1                    | 0.360 | 0.260 | 0.160 | 0.075 | 0.100  | 0.0689      | 0.76 | 0.88 | 1.90 | 1.80 | 2.50 | 3.50 |
| 560   | 56        | M         | 100                 | 1                    | 0.470 | 0.350 | 0.190 | 0.110 | 0.110  | 0.0790      | 0.68 | 0.75 | 1.80 | 1.70 | 2.35 | 3.20 |
| 680   | 68        | M         | 100                 | 1                    | 0.520 | 0.380 | 0.220 | 0.120 | 0.140  | 0.0878      | 0.61 | 0.69 | 1.50 | 1.50 | 2.10 | 3.00 |
| 820   | 82        | M         | 100                 | 1                    | 0.690 | 0.430 | 0.260 | 0.140 | 0.160  | 0.1100      | 0.57 | 0.61 | 1.30 | 1.40 | 1.95 | 2.60 |
| 101   | 100       | M         | 100                 | 1                    | 0.790 | 0.610 | 0.308 | 0.160 | 0.220  | 0.1400      | 0.50 | 0.60 | 1.20 | 1.30 | 1.70 | 2.20 |
| 121   | 120       | M         | 100                 | 1                    | 0.890 | 0.660 | 0.380 | 0.170 | 0.250  | 0.1600      | 0.49 | 0.52 | 1.10 | 1.10 | 1.60 | 2.00 |
| 151   | 150       | M         | 100                 | 1                    | 1.270 | 0.880 | 0.530 | 0.230 | 0.280  | 0.2000      | 0.43 | 0.46 | 0.95 | 1.00 | 1.42 | 1.80 |
| 181   | 180       | M         | 100                 | 1                    | 1.450 | 0.980 | 0.620 | 0.290 | 0.350  | 0.2700      | 0.39 | 0.42 | 0.85 | 0.90 | 1.30 | 1.60 |
| 221   | 220       | M         | 100                 | 1                    | 1.650 | 1.170 | 0.700 | 0.400 | 0.390  | 0.3000      | 0.35 | 0.36 | 0.80 | 0.80 | 1.16 | 1.50 |
| 271   | 270       | M         | 100                 | 1                    | 2.310 | 1.640 | 0.870 | 0.460 | 0.560  | 0.4000      | 0.32 | 0.34 | 0.60 | 0.75 | 1.06 | 1.30 |
| 331   | 330       | M         | 100                 | 1                    | 2.620 | 1.860 | 0.990 | 0.510 | 0.640  | 0.4500      | 0.28 | 0.32 | 0.50 | 0.68 | 0.95 | 1.20 |
| 391   | 390       | M         | 100                 | 1                    | 2.940 | 2.850 | -     | 0.690 | 0.700  | 0.5500      | 0.26 | 0.29 | -    | 0.65 | 0.88 | 1.10 |



|     |      |   |     |   |       |       |   |       |       |        |      |      |   |      |      |      |
|-----|------|---|-----|---|-------|-------|---|-------|-------|--------|------|------|---|------|------|------|
| 471 | 470  | M | 100 | 1 | 4.180 | 3.010 | - | 0.770 | 0.980 | 0.6000 | 0.24 | 0.26 | - | 0.58 | 0.79 | 1.00 |
| 561 | 560  | M | 100 | 1 | 4.670 | 3.620 | - | 0.860 | 1.070 | 0.7000 | 0.22 | 0.23 | - | 0.54 | 0.73 | 0.90 |
| 681 | 680  | M | 100 | 1 | 5.730 | 4.630 | - | 1.200 | 1.460 | 0.8400 | 0.19 | 0.22 | - | 0.48 | 0.67 | 0.82 |
| 821 | 820  | M | 100 | 1 | 6.540 | 5.200 | - | 1.340 | 1.640 | 1.0600 | 0.18 | 0.20 | - | 0.43 | 0.60 | 0.80 |
| 102 | 1000 | M | 100 | 1 | 9.440 | 6.000 | - | 1.530 | 1.820 | 1.2700 | 0.16 | 0.18 | - | 0.40 | 0.55 | 0.76 |

※Test Freq. :SDH73/SDH74 (1KHz/0.25V) ;

SDH124/SDH125/SDH127/SDH129 (1R3~8R2:100KHz/0.1V 100~102:1KHz/0.25V)

※Operating Temp. : -40°C~ +105°C

※Inductance drop=10% typ. at IDC.