FERROCORE

UNSHIELDED SMD POWER INDUCTORS / DLG TYPE

FEATURES

- ♦ Silver Plated Type
- ♦ High power and high saturation
- ♦ Ideal inductors for DC/DC conversion

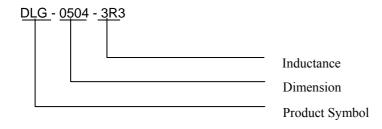
APPLICATIONS

- ◆ LCD TV
- ♦ DC/DC converter
- Digital camera
- Portable communication equipment

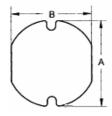


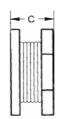


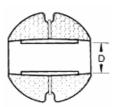
ORDERING CODE

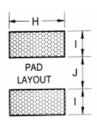


SHAPES









DIMENSIONS (UNIT: mm)

| Part No. | A | В | С | D (Ref.) | H (Ref.) | I (Ref.) | J (Ref.) |
|----------|----------------|---------------|---------------|----------|----------|----------|----------|
| DLG-0302 | 3.0 ± 0.3 | 2.8 ± 0.3 | 2.5 ± 0.3 | 0.8 | 3.0 | 1.40 | 0.8 |
| DLG-0403 | 4.5 ± 0.3 | 4.0 ± 0.3 | 3.2 ± 0.3 | 1.3 | 4.5 | 1.75 | 1.5 |
| DLG-0504 | 5.8 ± 0.3 | 5.2 ± 0.3 | 4.5 ± 0.3 | 1.3 | 5.5 | 2.15 | 1.7 |
| DLG-0703 | 7.8 ± 0.3 | 7.0 ± 0.3 | 3.5 ± 0.3 | 2.1 | 7.5 | 3.00 | 2.0 |
| DLG-0705 | 7.8 ± 0.3 | 7.0 ± 0.3 | 5.0 ± 0.3 | 2.1 | 7.5 | 3.00 | 2.0 |
| DLG-1004 | 10.0 ± 0.3 | 9.0 ± 0.3 | 4.0 ± 0.3 | 2.1 | 9.5 | 3.75 | 2.5 |
| DLG-1005 | 10.0 ± 0.4 | 9.0 ± 0.4 | 5.4 ± 0.3 | 2.1 | 9.5 | 3.75 | 2.5 |

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UNSHIELDED SMD POWER INDUCTORS / DLG TYPE

ELECTRICAL CHARACTERISTICS

| D () | Inductance | ce DC Resistance (Ω) Max | | | | | | | | Rated Current (A) Max | | | | | | | |
|------------|------------|--------------------------|-------|-------|------|------|------|--------------|-------|-----------------------|------|------|------|------|------|--|--|
| Part No. | (uH) | 0302 | 0403 | 0504 | 0703 | 0705 | 1004 | 1005 | 0302 | 0403 | 0504 | 0703 | 0705 | 1004 | 1005 | | |
| 1R0 | 1.0 | 0.07 | 0.049 | 0.028 | | | | | 2.080 | 2.560 | 3.00 | | | | | | |
| 1R4 | 1.4 | 0.09 | 0.057 | 0.029 | | | | | 1.860 | 2.520 | 2.80 | | | | | | |
| 1R8 | 1.8 | 0.11 | 0.064 | 0.030 | | | | | 1.800 | 1.950 | 2.60 | | | | | | |
| 2R2 | 2.2 | 0.13 | 0.072 | 0.042 | | | | | 1.390 | 1.750 | 2.30 | | | | | | |
| 2R7 | 2.7 | 0.14 | 0.079 | 0.044 | | | | | 1.320 | 1.580 | 2.10 | | | | | | |
| 3R3 | 3.3 | 0.20 | 0.087 | 0.045 | | | | | 1.250 | 1.440 | 2.00 | | | | | | |
| 3R9 | 3.9 | 0.21 | 0.094 | 0.047 | | | | | 1.200 | 1.330 | 1.95 | | | | | | |
| 4R7 | 4.7 | 0.33 | 0.109 | 0.048 | | | | | 1.030 | 1.150 | 1.90 | | | | | | |
| 5R6 | 5.6 | 0.35 | 0.126 | 0.050 | | | | | 0.910 | 1.100 | 1.80 | | | | | | |
| 6R8 | 6.8 | 0.38 | 0.132 | 0.060 | | | | | 0.850 | 1.080 | 1.60 | | | | | | |
| 8R2 | 8.2 | 0.43 | 0.147 | 0.090 | | | | | 0.820 | 1.050 | 1.50 | | | | | | |
| 100 | 10 | 0.50 | 0.182 | 0.10 | 0.08 | 0.07 | 0.05 | 0.06 | 0.740 | 1.040 | 1.44 | 1.44 | 2.30 | 2.38 | 2.60 | | |
| 120 | 12 | 0.65 | 0.210 | 0.12 | 0.09 | 0.08 | 0.06 | 0.07 | 0.640 | 0.970 | 1.40 | 1.39 | 2.00 | 2.13 | 2.45 | | |
| 150 | 15 | 0.82 | 0.235 | 0.14 | 0.10 | 0.09 | 0.07 | 0.08 | 0.600 | 0.850 | 1.30 | 1.24 | 1.80 | 1.87 | 2.27 | | |
| 180 | 18 | 0.90 | 0.338 | 0.15 | 0.11 | 0.10 | 0.08 | 0.09 | 0.540 | 0.740 | 1.23 | 1.12 | 1.60 | 1.73 | 2.15 | | |
| 220 | 22 | 1.14 | 0.378 | 0.18 | 0.13 | 0.11 | 0.09 | 0.10 | 0.500 | 0.680 | 1.11 | 1.07 | 1.50 | 1.60 | 1.95 | | |
| 270 | 27 | 1.39 | 0.522 | 0.20 | 0.15 | 0.12 | 0.10 | 0.11 | 0.430 | 0.620 | 0.97 | 0.94 | 1.30 | 1.44 | 1.76 | | |
| 330 | 33 | 1.55 | 0.540 | 0.23 | 0.17 | 0.13 | 0.12 | 0.12 | 0.400 | 0.560 | 0.88 | 0.85 | 1.20 | 1.26 | 1.50 | | |
| 390 | 39 | 2.15 | 0.587 | 0.32 | 0.22 | 0.16 | 0.15 | 0.14 | 0.370 | 0.520 | 0.80 | 0.74 | 1.10 | 1.20 | 1.37 | | |
| 470 | 47 | 2.44 | 0.844 | 0.37 | 0.25 | 0.18 | 0.17 | 0.17 | 0.360 | 0.440 | 0.72 | 0.68 | 1.10 | 1.10 | 1.28 | | |
| 560 | 56 | 2.68 | 0.937 | 0.42 | 0.28 | 0.24 | 0.20 | 0.19 | 0.310 | 0.420 | 0.68 | 0.64 | 0.94 | 1.01 | 1.17 | | |
| 680 | 68 | 3.05 | 1.117 | 0.46 | 0.33 | 0.28 | 0.22 | 0.22 | 0.300 | 0.370 | 0.61 | 0.59 | 0.85 | 0.91 | 1.11 | | |
| 820 | 82 | 3.48 | 1.200 | 0.60 | 0.41 | 0.37 | 0.25 | 0.25 | 0.280 | 0.300 | 0.58 | 0.54 | 0.78 | 0.85 | 1.00 | | |
| 101 | 100 | 3.84 | 1.440 | 0.70 | 0.48 | 0.43 | 0.34 | 0.35 | 0.250 | 0.280 | 0.52 | 0.51 | 0.72 | 0.74 | 0.97 | | |
| 121 | 120 | | 1.600 | | | | 0.40 | | | 0.240 | | 0.49 | | | | | |
| 151 | 150 | 6.62 | 1.800 | | 0.75 | 0.64 | 0.54 | 0.47 | | 0.220 | 0.40 | 0.40 | 0.58 | 0.61 | 0.78 | | |
| 181 | 180 | 7.36 | 2.180 | | 1.02 | 0.71 | 0.62 | 0.63 | | 0.210 | 0.38 | 0.36 | 0.51 | 0.56 | 0.72 | | |
| 221 | 220 | 8.38 | 2.570 | 1.57 | 1.20 | 0.96 | 0.72 | 0.73 | 0.160 | | 0.35 | 0.31 | 0.49 | 0.53 | 0.66 | | |
| 271 | 270 | 13.69 | 3.520 | 1.85 | 1.31 | 1.11 | 0.95 | 0.97 | 0.140 | | 0.28 | 0.29 | 0.42 | 0.45 | 0.57 | | |
| 331 | 330 | 15.78 | 5.000 | 2.00 | 1.50 | 1.26 | 1.10 | 1.15 | | 0.120 | 0.26 | 0.28 | 0.40 | 0.42 | 0.52 | | |
| 391 | 390 | 17.40 | 6.000 | 2.60 | 2.70 | 1.77 | 1.24 | 1.30 | 0.120 | 0.115 | 0.24 | 0.27 | 0.36 | 0.38 | 0.48 | | |
| 471 561 | 470 | 20.00 | 7.000 | | 3.00 | 1.96 | 1.53 | 1.48 | 0.084 | 0.110 | 0.12 | 0.25 | 0.34 | 0.35 | 0.42 | | |
| 681 | 680 | | | 4.19 | | | 1.90 | 1.90 2.25 | | | 0.10 | | | 0.32 | 0.33 | | |
| 821 | 820 | | | 5.12 | | | | 2.25 | | | 0.08 | | | | 0.28 | | |
| 102 | 1000 | | | 10.00 | | | | 2.33 | | | 0.03 | | | | 0.24 | | |
| 102 | 1000 | | | 10.00 | | | | | | | 0.03 | | | | | | |

[★] Test Frequency: 1.0~8.2uH(7.96MHz), 10~82uH(2.52MHz), 100~1000uH(1KHz) / 0.25 V