

FEATURES

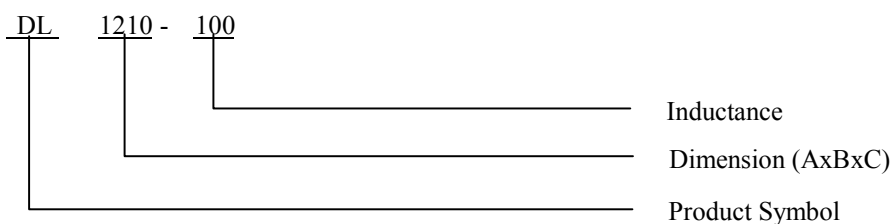
- ① Terminals are highly resistant to pull forces.
- ① Very strong solder ability by flow soldering, soldering iron or wave soldering.
- ① Highly reliable in environments of sudden temperature change and humidity.
- ① Highly accurate dimensions can be mounted automatically and resistant to mechanical shocks and pressure.
- ① Operating temperature: $-40\text{ }^{\circ}\text{C} \sim +85\text{ }^{\circ}\text{C}$.



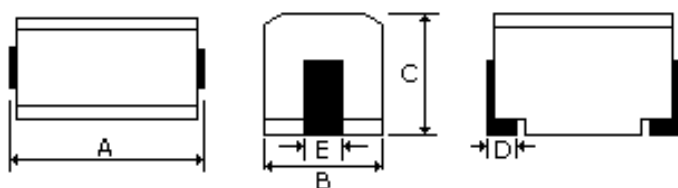
APPLICATIONS

- ① Video cameras, portable VCRs
- ① television tuners, mobile telephones
- ① Car radios, car stereos, thin tape radios
- ① Microtelevisions, Liquid crystal televisions
- ① other electronic devices

ORDERING CODE



SHAPES



DIMENSIONS UNIT: mm

| Part No. | A (±0.3) | B (±0.2) | C (±0.2) | D (Ref.) | E (Ref.) | Inductance |
|----------|----------|----------|----------|----------|----------|----------------|
| DL1007 | 2.5 | 2.0 | 1.8 | 0.4 | 1.0 | 1.0 ~ 100 uH |
| DL1210 | 3.2 | 2.5 | 2.2 | 0.6 | 1.2 | 0.01 ~ 330 uH |
| DL1812 | 4.5 | 3.2 | 3.2 | 1.2 | 1.4 | 0.10 ~ 1000 uH |
| DL2220 | 5.6 | 5.0 | 5.0 | 1.5 | 2.0 | 1.20 ~ 10 mH |

WIRE WOUND CHIP MOLDED INDUCTORS / DL TYPE

ELECTRICAL CHARACTERISTICS FOR DL1007

| Part No. | Inductance (uH) | Test Freq. (MHz) | Q Min | Self Resonant FREQ. (MHz) Min | DC Resistance (Ω) Max | Rated Current (mA) Max |
|------------|-----------------|------------------|-------|-------------------------------|-----------------------|------------------------|
| DL1007-1.0 | 1.0 | 7.96 | 30 | 245 | 1.10 | 245 |
| DL1007-1.2 | 1.2 | 7.96 | 30 | 230 | 1.20 | 230 |
| DL1007-1.5 | 1.5 | 7.96 | 30 | 182 | 1.30 | 220 |
| DL1007-1.8 | 1.8 | 7.96 | 30 | 135 | 1.45 | 210 |
| DL1007-2.2 | 2.2 | 7.96 | 30 | 105 | 1.55 | 200 |
| DL1007-2.7 | 2.7 | 7.96 | 30 | 70 | 1.70 | 195 |
| DL1007-3.3 | 3.3 | 7.96 | 30 | 55 | 1.90 | 185 |
| DL1007-3.9 | 3.9 | 7.96 | 30 | 48 | 2.10 | 180 |
| DL1007-4.7 | 4.7 | 7.96 | 30 | 43 | 2.30 | 175 |
| DL1007-5.6 | 5.6 | 7.96 | 25 | 42 | 2.50 | 170 |
| DL1007-6.8 | 6.8 | 7.96 | 25 | 39 | 2.70 | 165 |
| DL1007-8.2 | 8.2 | 7.96 | 25 | 36 | 3.05 | 160 |
| DL1007-10 | 10.0 | 2.52 | 25 | 33 | 3.50 | 155 |
| DL1007-12 | 12.0 | 2.52 | 25 | 30 | 3.80 | 150 |
| DL1007-15 | 15.0 | 2.52 | 25 | 26 | 4.40 | 140 |
| DL1007-18 | 18.0 | 2.52 | 25 | 24 | 4.80 | 130 |
| DL1007-22 | 22.0 | 2.52 | 25 | 22 | 5.50 | 125 |
| DL1007-27 | 27.0 | 2.52 | 25 | 21 | 6.30 | 115 |
| DL1007-33 | 33.0 | 2.52 | 25 | 20 | 7.10 | 110 |
| DL1007-39 | 39.0 | 2.52 | 20 | 18 | 9.50 | 90 |
| DL1007-47 | 47.0 | 2.52 | 20 | 17 | 11.10 | 80 |
| DL1007-56 | 56.0 | 2.52 | 20 | 16 | 12.10 | 75 |
| DL1007-68 | 68.0 | 2.52 | 20 | 15 | 16.60 | 70 |
| DL1007-82 | 82.0 | 2.52 | 20 | 13 | 19.00 | 66 |
| DL1007-100 | 100 | 0.79 | 15 | 12 | 21.00 | 60 |

ELECTRICAL CHARACTERISTICS FOR DL1210

| Part No. | Inductance (uH) | Test Freq. (MHz) | Q Min | Self Resonant FREQ. (MHz) Min | DC Resistance (Ω) Max | Rated Current (mA) Max |
|--------------|-----------------|------------------|-------|-------------------------------|-----------------------|------------------------|
| DL1210-0.010 | 0.010 | 100 | 15 | 2500 | 0.13 | 450 |
| DL1210-0.012 | 0.012 | 100 | 17 | 2300 | 0.14 | 450 |
| DL1210-0.015 | 0.015 | 100 | 19 | 2100 | 0.16 | 450 |
| DL1210-0.018 | 0.018 | 100 | 21 | 1900 | 0.18 | 450 |
| DL1210-0.022 | 0.022 | 100 | 23 | 1700 | 0.20 | 450 |
| DL1210-0.027 | 0.027 | 100 | 23 | 1500 | 0.22 | 450 |
| DL1210-0.033 | 0.033 | 100 | 25 | 1400 | 0.24 | 450 |
| DL1210-0.039 | 0.039 | 100 | 25 | 1300 | 0.27 | 450 |
| DL1210-0.047 | 0.047 | 100 | 26 | 1200 | 0.30 | 450 |
| DL1210-0.056 | 0.056 | 100 | 26 | 1100 | 0.33 | 450 |
| DL1210-0.068 | 0.068 | 100 | 27 | 1000 | 0.36 | 450 |
| DL1210-0.082 | 0.082 | 100 | 27 | 900 | 0.40 | 450 |
| DL1210-0.10 | 0.100 | 100 | 28 | 700 | 0.44 | 450 |
| DL1210-0.12 | 0.120 | 25.2 | 30 | 500 | 0.22 | 450 |
| DL1210-0.15 | 0.150 | 25.2 | 30 | 450 | 0.25 | 450 |
| DL1210-0.18 | 0.180 | 25.2 | 30 | 400 | 0.28 | 450 |
| DL1210-0.22 | 0.220 | 25.2 | 30 | 350 | 0.32 | 450 |
| DL1210-0.27 | 0.270 | 25.2 | 30 | 320 | 0.36 | 450 |
| DL1210-0.33 | 0.330 | 25.2 | 30 | 300 | 0.40 | 450 |
| DL1210-0.39 | 0.390 | 25.2 | 30 | 250 | 0.45 | 450 |
| DL1210-0.47 | 0.470 | 25.2 | 30 | 220 | 0.50 | 450 |
| DL1210-0.56 | 0.560 | 25.2 | 30 | 180 | 0.55 | 450 |
| DL1210-0.68 | 0.680 | 25.2 | 30 | 160 | 0.60 | 450 |
| DL1210-0.82 | 0.820 | 25.2 | 30 | 140 | 0.65 | 450 |
| DL1210-1.0 | 1.00 | 7.96 | 30 | 120 | 0.70 | 400 |
| DL1210-1.2 | 1.20 | 7.96 | 30 | 100 | 0.75 | 390 |
| DL1210-1.5 | 1.50 | 7.96 | 30 | 85 | 0.85 | 370 |
| DL1210-1.8 | 1.80 | 7.96 | 30 | 80 | 0.90 | 350 |
| DL1210-2.2 | 2.20 | 7.96 | 30 | 75 | 1.00 | 320 |

WIRE WOUND CHIP MOLDED INDUCTORS / DL TYPE

| | | | | | | |
|------------|------|-------|----|----|------|-----|
| DL1210-2.7 | 2.70 | 7.96 | 30 | 70 | 1.10 | 290 |
| DL1210-3.3 | 3.30 | 7.96 | 30 | 60 | 1.20 | 260 |
| DL1210-3.9 | 3.90 | 7.96 | 30 | 55 | 1.30 | 250 |
| DL1210-4.7 | 4.70 | 7.96 | 30 | 50 | 1.50 | 220 |
| DL1210-5.6 | 5.60 | 7.96 | 30 | 45 | 1.60 | 200 |
| DL1210-6.8 | 6.80 | 7.96 | 30 | 40 | 1.80 | 180 |
| DL1210-8.2 | 8.20 | 7.96 | 30 | 35 | 2.00 | 170 |
| DL1210-10 | 10 | 2.52 | 30 | 30 | 2.10 | 150 |
| DL1210-12 | 12 | 2.52 | 30 | 20 | 2.50 | 140 |
| DL1210-15 | 15 | 2.52 | 30 | 20 | 2.80 | 130 |
| DL1210-18 | 18 | 2.52 | 30 | 20 | 3.30 | 120 |
| DL1210-22 | 22 | 2.52 | 30 | 20 | 3.70 | 110 |
| DL1210-27 | 27 | 2.52 | 30 | 20 | 5.00 | 80 |
| DL1210-33 | 33 | 2.52 | 30 | 17 | 5.60 | 70 |
| DL1210-39 | 39 | 2.52 | 30 | 16 | 6.40 | 65 |
| DL1210-47 | 47 | 2.52 | 30 | 15 | 7.00 | 60 |
| DL1210-56 | 56 | 2.52 | 30 | 13 | 8.00 | 55 |
| DL1210-68 | 68 | 2.52 | 30 | 12 | 9.00 | 50 |
| DL1210-82 | 82 | 2.52 | 30 | 11 | 10.0 | 45 |
| DL1210-100 | 100 | 0.796 | 20 | 10 | 10.0 | 40 |
| DL1210-120 | 120 | 0.796 | 20 | 10 | 11.0 | 70 |
| DL1210-150 | 150 | 0.796 | 20 | 8 | 15.0 | 65 |
| DL1210-180 | 180 | 0.796 | 20 | 7 | 17.0 | 60 |
| DL1210-220 | 220 | 0.796 | 20 | 7 | 21.0 | 50 |
| DL1210-270 | 270 | 0.796 | 20 | 6 | 28.0 | 45 |
| DL1210-330 | 330 | 0.796 | 20 | 5 | 34.0 | 40 |

ELECTRICAL CHARACTERISTICS FOR DL1812

| Part No. | Inductance (uH) | Test Freq. (MHz) | Q Min | Self Resonant FREQ. (MHz) Min | DC Resistance (Ω) Max | Rated Current (mA) Max |
|-------------|-----------------|------------------|-------|-------------------------------|-----------------------|------------------------|
| DL1812-0.10 | 0.10 | 25.2 | 28 | 700 | 0.44 | 450 |
| DL1812-0.12 | 0.12 | 25.2 | 30 | 500 | 0.22 | 450 |
| DL1812-0.15 | 0.15 | 25.2 | 30 | 450 | 0.25 | 450 |
| DL1812-0.18 | 0.18 | 25.2 | 30 | 400 | 0.28 | 450 |
| DL1812-0.22 | 0.22 | 25.2 | 30 | 350 | 0.32 | 450 |
| DL1812-0.27 | 0.27 | 25.2 | 30 | 320 | 0.36 | 450 |
| DL1812-0.33 | 0.33 | 25.2 | 30 | 300 | 0.40 | 450 |
| DL1812-0.39 | 0.39 | 25.2 | 30 | 250 | 0.45 | 450 |
| DL1812-0.47 | 0.47 | 25.2 | 30 | 220 | 0.50 | 450 |
| DL1812-0.56 | 0.56 | 25.2 | 30 | 180 | 0.55 | 450 |
| DL1812-0.68 | 0.68 | 25.2 | 30 | 160 | 0.60 | 450 |
| DL1812-0.82 | 0.82 | 25.2 | 30 | 140 | 0.67 | 450 |
| DL1812-1.0 | 1.00 | 7.96 | 50 | 100 | 0.50 | 450 |
| DL1812-1.2 | 1.20 | 7.96 | 50 | 80 | 0.55 | 430 |
| DL1812-1.5 | 1.50 | 7.96 | 50 | 70 | 0.60 | 410 |
| DL1812-1.8 | 1.80 | 7.96 | 50 | 60 | 0.65 | 390 |
| DL1812-2.2 | 2.20 | 7.96 | 50 | 55 | 0.70 | 380 |
| DL1812-2.7 | 2.70 | 7.96 | 50 | 50 | 0.75 | 370 |
| DL1812-3.3 | 3.30 | 7.96 | 50 | 45 | 0.80 | 355 |
| DL1812-3.9 | 3.90 | 7.96 | 50 | 40 | 0.90 | 330 |
| DL1812-4.7 | 4.70 | 7.96 | 50 | 35 | 1.00 | 315 |
| DL1812-5.6 | 5.60 | 7.96 | 50 | 33 | 1.10 | 300 |
| DL1812-6.8 | 6.80 | 7.96 | 50 | 27 | 1.20 | 285 |
| DL1812-8.2 | 8.20 | 7.96 | 50 | 25 | 1.40 | 270 |
| DL1812-10 | 10 | 2.52 | 50 | 20 | 1.60 | 250 |
| DL1812-12 | 12 | 2.52 | 50 | 18 | 2.00 | 225 |
| DL1812-15 | 15 | 2.52 | 50 | 17 | 2.50 | 200 |
| DL1812-18 | 18 | 2.52 | 50 | 15 | 2.80 | 190 |
| DL1812-22 | 22 | 2.52 | 50 | 13 | 3.20 | 180 |
| DL1812-27 | 27 | 2.52 | 50 | 12 | 3.60 | 170 |
| DL1812-33 | 33 | 2.52 | 50 | 11 | 4.00 | 160 |

WIRE WOUND CHIP MOLDED INDUCTORS / DL TYPE

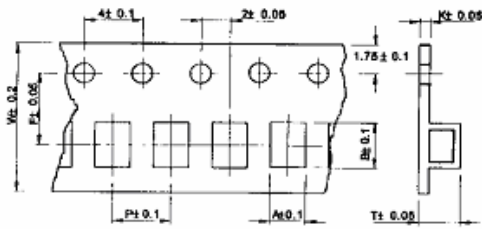
| | | | | | | |
|-------------|------|-------|----|-----|-------|-----|
| DL1812-39 | 39 | 2.52 | 50 | 10 | 4.50 | 150 |
| DL1812-47 | 47 | 2.52 | 50 | 10 | 5.00 | 140 |
| DL1812-56 | 56 | 2.52 | 50 | 9 | 5.50 | 135 |
| DL1812-68 | 68 | 2.52 | 50 | 9 | 6.00 | 130 |
| DL1812-82 | 82 | 2.52 | 50 | 8 | 7.00 | 120 |
| DL1812-100 | 100 | 0.796 | 40 | 8 | 8.00 | 110 |
| DL1812-120 | 120 | 0.796 | 40 | 6 | 8.00 | 110 |
| DL1812-150 | 150 | 0.796 | 40 | 5 | 9.00 | 105 |
| DL1812-180 | 180 | 0.796 | 40 | 5 | 9.50 | 102 |
| DL1812-220 | 220 | 0.796 | 40 | 4 | 12.00 | 100 |
| DL1812-270 | 270 | 0.796 | 30 | 4 | 18.00 | 92 |
| DL1812-330 | 330 | 0.796 | 30 | 3.5 | 20.00 | 85 |
| DL1812-390 | 390 | 0.796 | 30 | 3 | 23.00 | 80 |
| DL1812-470 | 470 | 0.796 | 30 | 3 | 26.00 | 62 |
| DL1812-560 | 560 | 0.796 | 30 | 3 | 30.00 | 50 |
| DL1812-680 | 680 | 0.796 | 30 | 3 | 40.00 | 50 |
| DL1812-820 | 820 | 0.796 | 30 | 2.5 | 45.00 | 30 |
| DL1812-1000 | 1000 | 0.796 | 30 | 2.5 | 50.00 | 30 |

ELECTRICAL CHARACTERISTICS FOR DL2220

| Part No. | Inductance (mH) | Test Freq. (MHz) | Q Min | Self Resonant FREQ. (MHz) Min | DC Resistance (Ω) Max | Rated Current (mA) Max |
|------------|-----------------|------------------|-------|-------------------------------|--------------------------------|------------------------|
| DL2220-1.2 | 1.2 | 0.252 | 30 | 1.5 | 17 | 75 |
| DL2220-1.5 | 1.5 | 0.252 | 30 | 1.4 | 20 | 70 |
| DL2220-1.8 | 1.8 | 0.252 | 30 | 1.3 | 30 | 60 |
| DL2220-2.2 | 2.2 | 0.252 | 30 | 1.2 | 35 | 55 |
| DL2220-2.7 | 2.7 | 0.252 | 30 | 1.1 | 55 | 45 |
| DL2220-3.3 | 3.3 | 0.252 | 30 | 1.0 | 60 | 40 |
| DL2220-3.9 | 3.9 | 0.252 | 30 | 1.0 | 70 | 39 |
| DL2220-4.7 | 4.7 | 0.252 | 30 | 0.9 | 78 | 36 |
| DL2220-5.6 | 5.6 | 0.252 | 30 | 0.8 | 85 | 33 |
| DL2220-6.8 | 6.8 | 0.252 | 30 | 0.7 | 110 | 30 |
| DL2220-8.2 | 8.2 | 0.252 | 30 | 0.6 | 125 | 28 |
| DL2220-10 | 10 | 0.0796 | 20 | 0.5 | 150 | 25 |

TAPE DIMENSIONS

Tape Dimensions



REEL DIMENSIONS

Figure 1

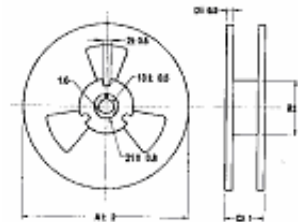
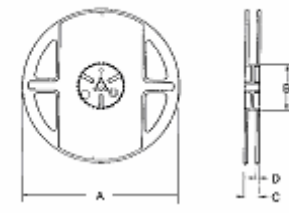


Figure 2



| Part No. | Tape Dimensions (mm) | | | | | | | Fig. | Reel Dimensions (mm) | | | | Quantity / Reel |
|----------|----------------------|------|------|-------|------|------|------|------|----------------------|----|----|------|-----------------|
| | A | B | T | W | P | F | K | | A | B | C | D | |
| DL1007 | 2.30 | 2.90 | 2.10 | 8.00 | 4.00 | 3.50 | 0.20 | 2 | 178 | 60 | 9 | 1.5 | 2000 |
| DL1210 | 2.94 | 3.64 | 2.52 | 8.00 | 4.00 | 3.50 | 0.20 | 1 | 178 | 60 | 10 | 1.50 | 2000 |
| DL1812 | 3.64 | 5.14 | 3.60 | 12.00 | 8.00 | 5.50 | 0.30 | 1 | 250 | 80 | 14 | 1.50 | 500 |
| DL2220 | 4.90 | 5.65 | 5.30 | 16.15 | 12.2 | 5.50 | 0.50 | 2 | 330 | 80 | 20 | 2.00 | 1000 |