



RL-6280

SURFACE MOUNT POWER INDUCTORS

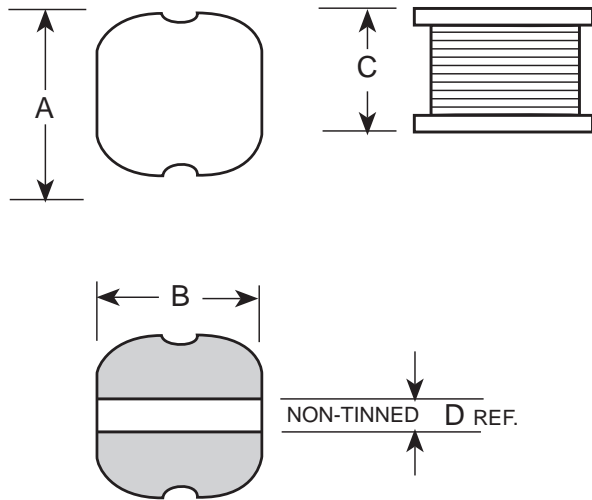


FEATURES:

- Inductance from 1.0 μ H to 820 μ H.
- Operating currents from 0.24 Amps to 3.80 Amps.
- Operating frequencies from DC to 8MHz.
- Operating temperature range -40°C to 85°C.

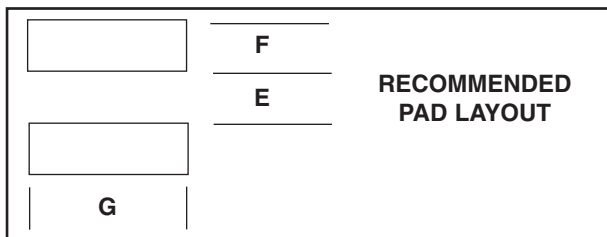
TYPICAL APPLICATIONS:

- Switching Power Supplies
- RFI/EMC Filtering



TAPE AND REEL PACKAGING

| PART NO. | PIECES PER REEL | PLASTIC REEL SIZE |
|-------------|-----------------|-------------------|
| RL-6280-0 | 2000 | 13" |
| RL-6280-1 | 2000 | 13" |
| RL-6280-1.5 | 2000 | 13" |
| RL-6280-2 | 1500 | 13" |
| RL-6280-3 | 1000 | 13" |
| RL-6280-4 | 1000 | 13" |
| RL-6280-4.5 | 800 | 13" |
| RL-6280-5 | 800 | 13" |



| | RL-6250-0 | RL-6280-1 | RL-62500-1.5 | RL-6280-2 | RL-6280-3 | RL-6280-4 | RL-6250-4.5 | RL-6280-5 |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| A | .138 (3.5) | .177 (4.5) | .228 (5.8) | .228 (5.8) | .307 (7.8) | .307 (7.8) | .394 (10.0) | .394 (10.0) |
| B | .118 (3.0) | .157 (4.0) | .205 (5.2) | .205 (5.2) | .276 (7.0) | .276 (7.0) | .354 (9.0) | .354 (9.0) |
| C | .083 (2.10) | .126 (3.2) | 0.0984 (2.50) | .177 (4.5) | .138 (3.5) | .197 (5.0) | .158 (4.0) | .213 (5.4) |
| D | .012 (.30 REF) | .039 (1.0 REF) | .051 (1.3 REF) | .051 (1.3 REF) | .083 (2.1 REF) | .083 (2.1 REF) | .114 (2.9 REF) | .114 (2.9 REF) |
| E | .032 (.80 REF) | .059 (1.50 REF) | .067 (1.70 REF) | .067 (1.70 REF) | .079 (2.0 REF) | .079 (2.0 REF) | .0984 (2.5REF) | .0984 (2.5REF) |
| F | .063 (1.60 REF) | .069 (1.75 REF) | .085 (2.15 REF) | .085 (2.15 REF) | .118 (3.0 REF) | .118 (3.0 REF) | .148 (3.75 REF) | .148 (3.75 REF) |
| G | .138 (3.50 REF) | .177 (4.50 REF) | .217 (5.50 REF) | .217 (5.50 REF) | .295 (7.50 REF) | .295 (7.50 REF) | .374 (9.5 REF) | .374 (9.5 REF) |



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ELECTRICAL CHARACTERISTICS

| PART NO. RL-6280-0 | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|-----------------------|--------------------------|----------------------|--------------------|
| RL-6280-0-1.0 | 1.0 \pm 20% | 0.04 | 1.50 |
| RL-6280-0-1.4 | 1.4 \pm 20% | 0.05 | 1.50 |
| RL-6280-0-1.8 | 1.8 \pm 20% | 0.06 | 0.80 |
| RL-6280-0-2.2 | 2.2 \pm 20% | 0.08 | 0.75 |
| RL-6280-0-2.7 | 2.7 \pm 20% | 0.10 | 0.75 |
| RL-6280-0-3.3 | 3.3 \pm 20% | 0.15 | 0.60 |
| RL-6280-0-3.9 | 3.9 \pm 20% | 0.20 | 0.50 |
| RL-6280-0-4.7 | 4.7 \pm 20% | 0.20 | 0.50 |
| RL-6280-0-5.6 | 5.6 \pm 20% | 0.23 | 0.45 |
| RL-6280-0-6.8 | 6.8 \pm 20% | 0.25 | 0.40 |
| RL-6280-0-8.2 | 8.2 \pm 20% | 0.30 | 0.40 |
| RL-6280-0-10 | 10 \pm 20% | 0.35 | 0.35 |
| RL-6280-0-12 | 12 \pm 20% | 0.40 | 0.35 |
| RL-6280-0-15 | 15 \pm 20% | 0.50 | 0.30 |
| RL-6280-0-18 | 18 \pm 20% | 0.55 | 0.30 |
| RL-6280-0-22 | 22 \pm 20% | 0.60 | 0.30 |
| RL-6280-0-27 | 27 \pm 20% | 0.70 | 0.30 |
| RL-6280-0-33 | 33 \pm 20% | 1.00 | 0.25 |
| RL-6280-0-39 | 39 \pm 20% | 1.20 | 0.25 |
| RL-6280-0-47 | 47 \pm 20% | 1.50 | 0.20 |
| RL-6280-0-56 | 56 \pm 20% | 1.80 | 0.20 |
| RL-6280-0-68 | 68 \pm 20% | 2.00 | 0.18 |
| RL-6280-0-82 | 82 \pm 20% | 2.50 | 0.16 |
| RL-6280-0-100 | 100 \pm 20% | 3.00 | 0.15 |
| RL-6280-0-120 | 120 \pm 20% | 3.50 | 0.14 |
| RL-6280-0-150 | 150 \pm 20% | 4.00 | 0.13 |
| RL-6280-0-180 | 180 \pm 20% | 5.00 | 0.12 |
| RL-6280-0-220 | 220 \pm 20% | 5.50 | 0.10 |
| RL-6280-0-270 | 270 \pm 20% | 6.00 | 0.10 |
| RL-6280-0-330 | 330 \pm 20% | 7.00 | 0.10 |
| RL-6280-0-390 | 390 \pm 20% | 8.00 | 0.10 |
| RL-6280-0-470 | 470 \pm 20% | 12.00 | 0.09 |

| PART NO. RL-6280-1 | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|-----------------------|--------------------------|----------------------|--------------------|
| RL-6280-1-1.0 | 1.0 \pm 20% | 0.033 | 3.80 |
| RL-6280-1-1.4 | 1.4 \pm 20% | 0.038 | 3.30 |
| RL-6280-1-1.8 | 1.8 \pm 20% | 0.042 | 2.91 |
| RL-6280-1-2.2 | 2.2 \pm 20% | 0.047 | 2.60 |
| RL-6280-1-2.7 | 2.7 \pm 20% | 0.052 | 2.43 |
| RL-6280-1-3.3 | 3.3 \pm 20% | 0.058 | 2.15 |
| RL-6280-1-3.9 | 3.9 \pm 20% | 0.076 | 1.98 |
| RL-6280-1-4.7 | 4.7 \pm 20% | 0.094 | 1.70 |
| RL-6280-1-5.6 | 5.6 \pm 20% | 0.101 | 1.60 |
| RL-6280-1-6.8 | 6.8 \pm 20% | 0.117 | 1.41 |
| RL-6280-1-8.2 | 8.2 \pm 20% | 0.132 | 1.26 |
| RL-6280-1-10 | 10 \pm 20% | 0.182 | 1.15 |
| RL-6280-1-12 | 12 \pm 20% | 0.210 | 1.05 |
| RL-6280-1-15 | 15 \pm 20% | 0.235 | 0.92 |
| RL-6280-1-18 | 18 \pm 20% | 0.338 | 0.84 |
| RL-6280-1-22 | 22 \pm 20% | 0.378 | 0.76 |
| RL-6280-1-27 | 27 \pm 20% | 0.522 | 0.71 |
| RL-6280-1-33 | 33 \pm 10% | 0.540 | 0.64 |
| RL-6280-1-39 | 39 \pm 10% | 0.587 | 0.59 |
| RL-6280-1-47 | 47 \pm 10% | 0.844 | 0.54 |
| RL-6280-1-56 | 56 \pm 10% | 0.937 | 0.50 |



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ELECTRICAL CHARACTERISTICS

| PART NO. | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|-----------------|--------------------------|----------------------|--------------------|
| RL-6280-1.5 | | | |
| RL-6280-1.5-1.0 | 1.0 \pm 20% | 0.03 | 4.8 |
| RL-6280-1.5-1.4 | 1.4 \pm 20% | 0.035 | 4.2 |
| RL-6280-1.5-1.8 | 1.8 \pm 20% | 0.04 | 3.8 |
| RL-6280-1.5-2.2 | 2.2 \pm 20% | 0.04 | 3.5 |
| RL-6280-1.5-2.7 | 2.7 \pm 20% | 0.055 | 3.1 |
| RL-6280-1.5-3.3 | 3.3 \pm 20% | 0.07 | 3.0 |
| RL-6280-1.5-3.9 | 3.9 \pm 20% | 0.08 | 2.8 |
| RL-6280-1.5-4.7 | 4.7 \pm 20% | 0.09 | 2.7 |
| RL-6280-1.5-5.6 | 5.6 \pm 20% | 0.11 | 2.2 |
| RL-6280-1.5-6.8 | 6.8 \pm 20% | 0.14 | 1.9 |
| RL-6280-1.5-8.2 | 8.2 \pm 20% | 0.15 | 1.9 |
| RL-6280-1.5-10 | 10 \pm 20% | 0.165 | 1.5 |
| RL-6280-1.5-12 | 12 \pm 20% | 0.25 | 1.4 |
| RL-6280-1.5-15 | 15 \pm 20% | 0.28 | 1.2 |
| RL-6280-1.5-18 | 18 \pm 20% | 0.32 | 1.1 |
| RL-6280-1.5-22 | 22 \pm 20% | 0.42 | 1.0 |
| RL-6280-1.5-27 | 27 \pm 20% | 0.45 | 0.9 |
| RL-6280-1.5-33 | 33 \pm 20% | 0.55 | 0.8 |
| RL-6280-1.5-39 | 39 \pm 20% | 0.58 | 0.75 |
| RL-6280-1.5-47 | 47 \pm 20% | 0.83 | 0.7 |
| RL-6280-1.5-56 | 56 \pm 20% | 0.9 | 0.65 |
| RL-6280-1.5-68 | 68 \pm 20% | 0.97 | 0.6 |
| RL-6280-1.5-82 | 82 \pm 20% | 1.2 | 0.55 |
| RL-6280-1.5-100 | 100 \pm 20% | 1.5 | 0.5 |
| RL-6280-1.5-120 | 120 \pm 20% | 1.7 | 0.47 |
| RL-6280-1.5-150 | 150 \pm 20% | 1.955 | 0.45 |
| RL-6280-1.5-180 | 180 \pm 20% | 2.6 | 0.14 |
| RL-6280-1.5-220 | 220 \pm 20% | 3.4 | 0.35 |
| RL-6280-1.5-270 | 270 \pm 20% | 4.0 | 0.3 |
| RL-6280-1.5-330 | 330 \pm 20% | 4.5 | 0.27 |
| RL-6280-1.5-390 | 390 \pm 20% | 5.0 | 0.25 |
| RL-6280-1.5-470 | 470 \pm 20% | 7.0 | 0.23 |
| RL-6280-1.5-560 | 560 \pm 20% | 8.0 | 0.21 |

| PART NO. | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|---------------|--------------------------|----------------------|--------------------|
| RL-6280-2 | | | |
| RL-6280-2-10 | 10 \pm 20% | 0.10 | 1.44 |
| RL-6280-2-12 | 12 \pm 20% | 0.12 | 1.40 |
| RL-6280-2-15 | 15 \pm 20% | 0.14 | 1.30 |
| RL-6280-2-18 | 18 \pm 20% | 0.15 | 1.23 |
| RL-6280-2-22 | 22 \pm 20% | 0.18 | 1.11 |
| RL-6280-2-27 | 27 \pm 20% | 0.20 | 0.97 |
| RL-6280-2-33 | 33 \pm 15% | 0.23 | 0.88 |
| RL-6280-2-39 | 39 \pm 15% | 0.32 | 0.80 |
| RL-6280-2-47 | 47 \pm 15% | 0.37 | 0.72 |
| RL-6280-2-56 | 56 \pm 10% | 0.42 | 0.68 |
| RL-6280-2-68 | 68 \pm 10% | 0.46 | 0.61 |
| RL-6280-2-82 | 82 \pm 10% | 0.60 | 0.58 |
| RL-6280-2-100 | 100 \pm 10% | 0.70 | 0.52 |
| RL-6280-2-120 | 120 \pm 10% | 0.93 | 0.48 |
| RL-6280-2-150 | 150 \pm 10% | 1.10 | 0.40 |
| RL-6280-2-180 | 180 \pm 10% | 1.38 | 0.38 |
| RL-6280-2-220 | 220 \pm 10% | 1.57 | 0.35 |



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ELECTRICAL CHARACTERISTICS

| PART NO. RL-6280-3 | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|-----------------------|--------------------------|----------------------|--------------------|
| RL-6280-3-10 | 10 \pm 20% | 0.08 | 1.44 |
| RL-6280-3-12 | 12 \pm 20% | 0.09 | 1.39 |
| RL-6280-3-15 | 15 \pm 20% | 0.10 | 1.24 |
| RL-6280-3-18 | 18 \pm 20% | 0.11 | 1.12 |
| RL-6280-3-22 | 22 \pm 20% | 0.13 | 1.07 |
| RL-6280-3-27 | 27 \pm 20% | 0.15 | 0.94 |
| RL-6280-3-33 | 33 \pm 10% | 0.17 | 0.85 |
| RL-6280-3-39 | 39 \pm 10% | 0.22 | 0.74 |
| RL-6280-3-47 | 47 \pm 10% | 0.25 | 0.68 |
| RL-6280-3-56 | 56 \pm 10% | 0.28 | 0.64 |
| RL-6280-3-68 | 68 \pm 10% | 0.33 | 0.59 |
| RL-6280-3-82 | 82 \pm 10% | 0.41 | 0.54 |
| RL-6280-3-100 | 100 \pm 10% | 0.48 | 0.51 |
| RL-6280-3-120 | 120 \pm 10% | 0.54 | 0.49 |
| RL-6280-3-150 | 150 \pm 10% | 0.75 | 0.40 |
| RL-6280-3-180 | 180 \pm 10% | 1.02 | 0.36 |
| RL-6280-3-220 | 220 \pm 10% | 1.20 | 0.31 |
| RL-6280-3-270 | 270 \pm 10% | 1.31 | 0.29 |
| RL-6280-3-330 | 330 \pm 10% | 1.50 | 0.28 |

| PART NO. RL-6280-4 | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|-----------------------|--------------------------|----------------------|--------------------|
| RL-6280-4-10 | 10 \pm 20% | 0.07 | 2.30 |
| RL-6280-4-12 | 12 \pm 20% | 0.08 | 2.00 |
| RL-6280-4-15 | 15 \pm 20% | 0.09 | 1.80 |
| RL-6280-4-18 | 18 \pm 20% | 0.10 | 1.60 |
| RL-6280-4-22 | 22 \pm 20% | 0.11 | 1.50 |
| RL-6280-4-27 | 27 \pm 20% | 0.12 | 1.30 |
| RL-6280-4-33 | 33 \pm 10% | 0.13 | 1.20 |
| RL-6280-4-39 | 39 \pm 10% | 0.16 | 1.10 |
| RL-6280-4-47 | 47 \pm 10% | 0.18 | 1.10 |
| RL-6280-4-56 | 56 \pm 10% | 0.24 | 0.94 |
| RL-6280-4-68 | 68 \pm 10% | 0.28 | 0.85 |
| RL-6280-4-82 | 82 \pm 10% | 0.37 | 0.78 |
| RL-6280-4-100 | 100 \pm 10% | 0.43 | 0.72 |
| RL-6280-4-120 | 120 \pm 10% | 0.47 | 0.66 |
| RL-6280-4-150 | 150 \pm 10% | 0.64 | 0.58 |
| RL-6280-4-180 | 180 \pm 10% | 0.71 | 0.51 |
| RL-6280-4-220 | 220 \pm 10% | 0.96 | 0.49 |
| RL-6280-4-270 | 270 \pm 10% | 1.11 | 0.42 |
| RL-6280-4-330 | 330 \pm 10% | 1.26 | 0.40 |
| RL-6280-4-390 | 390 \pm 10% | 1.77 | 0.36 |
| RL-6280-4-470 | 470 \pm 10% | 1.96 | 0.34 |



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ELECTRICAL CHARACTERISTICS

| PART NO. | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|-----------------|--------------------------|----------------------|--------------------|
| RL-6280-4.5 | | | |
| RL-6280-4.5-10 | 10 \pm 20% | 0.053 | 2.38 |
| RL-6280-4.5-12 | 12 \pm 20% | 0.061 | 2.13 |
| RL-6280-4.5-15 | 15 \pm 20% | 0.07 | 1.87 |
| RL-6280-4.5-18 | 18 \pm 20% | 0.081 | 1.73 |
| RL-6280-4.5-22 | 22 \pm 20% | 0.088 | 1.6 |
| RL-6280-4.5-27 | 27 \pm 20% | 0.1 | 1.44 |
| RL-6280-4.5-33 | 33 \pm 20% | 0.12 | 1.26 |
| RL-6280-4.5-39 | 39 \pm 20% | 0.151 | 1.2 |
| RL-6280-4.5-47 | 47 \pm 10% | 0.17 | 1.1 |
| RL-6280-4.5-56 | 56 \pm 10% | 0.199 | 1.07 |
| RL-6280-4.5-68 | 68 \pm 10% | 0.223 | 0.91 |
| RL-6280-4.5-82 | 82 \pm 10% | 0.252 | 0.85 |
| RL-6280-4.5-100 | 100 \pm 10% | 0.344 | 0.74 |
| RL-6280-4.5-120 | 120 \pm 10% | 0.396 | 0.69 |
| RL-6280-4.5-150 | 150 \pm 10% | 0.544 | 0.61 |
| RL-6280-4.5-180 | 180 \pm 10% | 0.621 | 0.58 |
| RL-6280-4.5-220 | 220 \pm 10% | 0.721 | 0.53 |
| RL-6280-4.5-270 | 270 \pm 10% | 0.949 | 0.45 |
| RL-6280-4.5-330 | 330 \pm 10% | 1.1 | 0.42 |
| RL-6280-4.5-390 | 390 \pm 10% | 1.245 | 0.38 |
| RL-6280-4.5-470 | 470 \pm 10% | 1.526 | 0.35 |
| RL-6280-4.5-560 | 560 \pm 10% | 1.904 | 0.32 |

| PART NO. | INDUCTANCE (μ H) | RDC (OHM) MAX. | IDC (A) MAX. |
|---------------|--------------------------|----------------------|--------------------|
| RL-6280-5 | | | |
| RL-6280-5-10 | 10 \pm 20% | 0.06 | 2.60 |
| RL-6280-5-12 | 12 \pm 20% | 0.07 | 2.45 |
| RL-6280-5-15 | 15 \pm 20% | 0.08 | 2.27 |
| RL-6280-5-18 | 18 \pm 20% | 0.09 | 2.15 |
| RL-6280-5-22 | 22 \pm 20% | 0.10 | 1.95 |
| RL-6280-5-27 | 27 \pm 20% | 0.11 | 1.76 |
| RL-6280-5-33 | 33 \pm 20% | 0.12 | 1.50 |
| RL-6280-5-39 | 39 \pm 20% | 0.14 | 1.37 |
| RL-6280-5-47 | 47 \pm 10% | 0.17 | 1.28 |
| RL-6280-5-56 | 56 \pm 10% | 0.19 | 1.17 |
| RL-6280-5-68 | 68 \pm 10% | 0.22 | 1.11 |
| RL-6280-5-82 | 82 \pm 10% | 0.25 | 1.00 |
| RL-6280-5-100 | 100 \pm 10% | 0.35 | 0.97 |
| RL-6280-5-120 | 120 \pm 10% | 0.40 | 0.89 |
| RL-6280-5-150 | 150 \pm 10% | 0.47 | 0.78 |
| RL-6280-5-180 | 180 \pm 10% | 0.63 | 0.72 |
| RL-6280-5-220 | 220 \pm 10% | 0.73 | 0.66 |
| RL-6280-5-270 | 270 \pm 10% | 0.97 | 0.57 |
| RL-6280-5-330 | 330 \pm 10% | 1.15 | 0.52 |
| RL-6280-5-390 | 390 \pm 10% | 1.30 | 0.48 |
| RL-6280-5-470 | 470 \pm 10% | 1.48 | 0.42 |
| RL-6280-5-560 | 560 \pm 10% | 1.90 | 0.33 |
| RL-6280-5-680 | 680 \pm 10% | 2.25 | 0.28 |
| RL-6280-5-820 | 820 \pm 10% | 2.55 | 0.24 |

NOTES:

1. Rated current lowers inductance approx. 10%.
2. Measuring frequency 1KHz @ 0 ADC.
3. DCR measured at 20°C.
4. Operating temperature range -40°C to +105°C.
5. Maximum temperature rise 40°C at rated current.



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