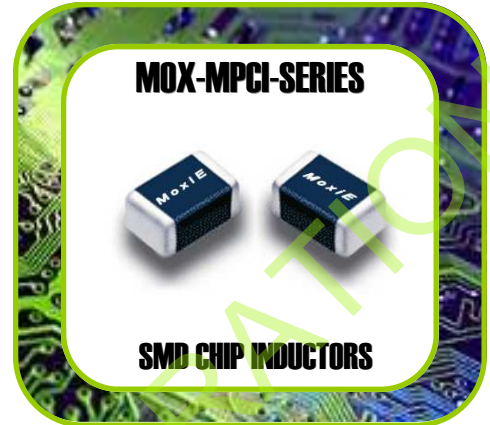


MOX-MPCI-SERIES

MoxiE[®]
INDUCTOR CORPORATION

Surface Mount Multilayer Chip Inductors

- Wide range of inductance values for flexible needs.
- Available in JIS/EIA package dimensions.
- Operating temperature: -40°C to +85°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.

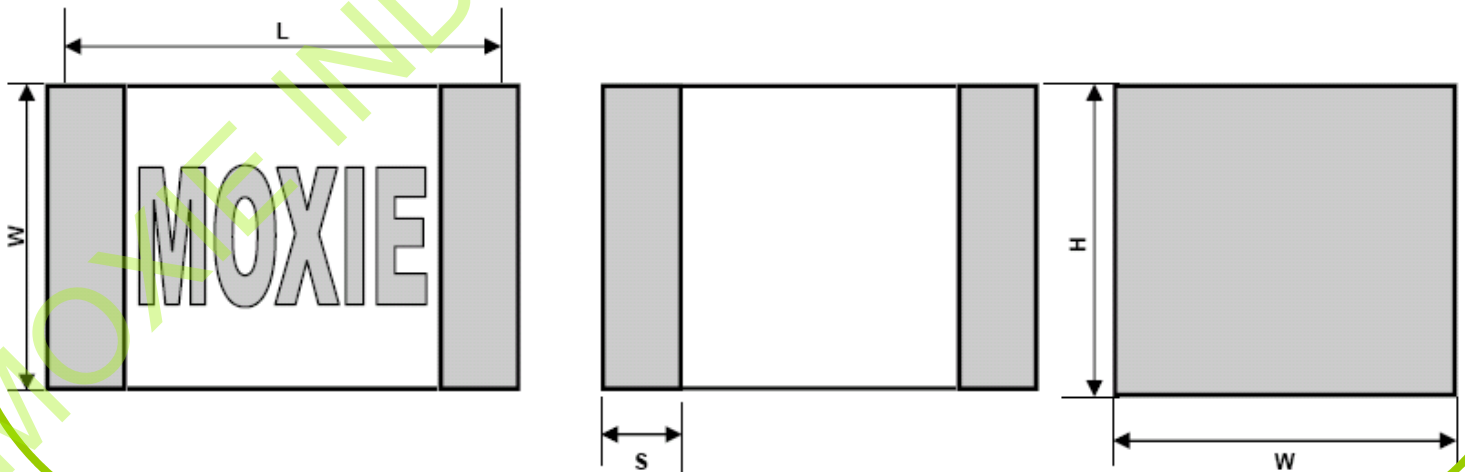


PART NUMBERS

| MOXIE PART NUMBER | L (LENGTH) | W (WIDTH) | H (THICKNESS) | S (TERMINAL) |
|----------------------|---------------|--------------|------------------|-----------------|
| MOX-MPCI-0603 | 1.60 ± 0.15 | 0.80 ± 0.15 | 0.80 ± 0.15 | 0.30 ± 0.20 |
| MOX-MPCI-0805 | 2.00 ± 0.20 | 1.25 ± 0.20 | 1.25 ± 0.20 | 0.50 ± 0.30 |
| MOX-MPCI-1206 | 3.20 ± 0.20 | 1.60 ± 0.20 | 1.10 ± 0.20 | 0.50 ± 0.30 |



MECHANICAL DIMENSIONS





MOX-MPCI-0603 SPECIFICATIONS

| MoxiE Part Number | Inductance (μH) | Tolerance (%) | Q Minimum | Test Frequency | SRF Minimum (MHz) | RDC Max. (Ω) | IDC Max. (mA) |
|-------------------|-----------------|---------------|-----------|----------------|-------------------|--------------|---------------|
| MOX-MPCI-0603-47 | 0.047 | M | 20 | 50 | 260 | 0.030 | 50 |
| MOX-MPCI-0603-68 | 0.068 | M | 20 | 50 | 250 | 0.30 | 50 |
| MOX-MPCI-0603-82 | 0.082 | M | 20 | 50 | 245 | 0.30 | 50 |
| MOX-MPCI-0603-R10 | 0.10 | K,M | 30 | 25 | 240 | 0.50 | 50 |
| MOX-MPCI-0603-R12 | 0.12 | K,M | 30 | 25 | 205 | 0.50 | 50 |
| MOX-MPCI-0603-R15 | 0.15 | K,M | 30 | 25 | 180 | 0.60 | 50 |
| MOX-MPCI-0603-R18 | 0.18 | K,M | 30 | 25 | 165 | 0.60 | 50 |
| MOX-MPCI-0603-R22 | 0.22 | K,M | 30 | 35 | 150 | 0.80 | 50 |
| MOX-MPCI-0603-R27 | 0.27 | K,M | 30 | 25 | 136 | 0.80 | 50 |
| MOX-MPCI-0603-R33 | 0.33 | K,M | 30 | 25 | 125 | 0.85 | 35 |
| MOX-MPCI-0603-R39 | 0.39 | K,M | 30 | 25 | 110 | 1.00 | 35 |
| MOX-MPCI-0603-R47 | 0.47 | K,M | 30 | 25 | 105 | 1.35 | 35 |
| MOX-MPCI-0603-R56 | 0.56 | K,M | 30 | 25 | 95 | 1.55 | 35 |
| MOX-MPCI-0603-R68 | 0.68 | K,M | 30 | 25 | 85 | 1.70 | 35 |
| MOX-MPCI-0603-R82 | 0.82 | K,M | 30 | 25 | 75 | 2.10 | 35 |
| MOX-MPCI-0603-1R0 | 1.00 | K,M | 35 | 10 | 65 | 0.60 | 25 |
| MOX-MPCI-0603-1R2 | 1.20 | K,M | 35 | 10 | 60 | 0.80 | 25 |
| MOX-MPCI-0603-1R5 | 1.50 | K,M | 35 | 10 | 55 | 0.80 | 25 |
| MOX-MPCI-0603-1R8 | 1.80 | K,M | 35 | 10 | 50 | 0.95 | 25 |
| MOX-MPCI-0603-2R2 | 2.20 | K,M | 35 | 10 | 45 | 1.15 | 15 |
| MOX-MPCI-0603-2R7 | 2.70 | K,M | 35 | 10 | 40 | 1.35 | 15 |
| MOX-MPCI-0603-3R3 | 3.30 | K,M | 35 | 10 | 38 | 1.55 | 15 |
| MOX-MPCI-0603-3R9 | 3.90 | K,M | 35 | 10 | 36 | 1.70 | 15 |
| MOX-MPCI-0603-4R7 | 4.70 | K,M | 35 | 10 | 33 | 2.10 | 15 |
| MOX-MPCI-0603-5R6 | 5.60 | K,M | 35 | 4 | 22 | 1.55 | 5 |
| MOX-MPCI-0603-6R8 | 6.80 | K,M | 35 | 4 | 20 | 1.70 | 5 |
| MOX-MPCI-0603-8R2 | 8.20 | K,M | 30 | 4 | 18 | 2.10 | 5 |
| MOX-MPCI-0603-100 | 10.00 | K,M | 30 | 2 | 17 | 2.55 | 5 |

- Measuring Frequency (L) 100 kHz
- Available Tolerances: K= ±10%, M= 20%
- Q is measured on a HP-4287A RF LCR meter with a HP-16193 fixture attached.
- MoxiE Inductor Corporation specifications are subject to change without notice.



MOX-MPCI-0805 SPECIFICATIONS

| MoxiE Part Number | Inductance (µH) | Tolerance (%) | Q Minimum | Test Frequency | SRF Minimum (MHz) | RDC Max. (Ω) | IDC Max. (mA) |
|-------------------|-----------------|---------------|-----------|----------------|-------------------|--------------|---------------|
| MOX-MPCI-0805-47 | 0.047 | M | 25 | 50 | 320 | 0.20 | 300 |
| MOX-MPCI-0805-68 | 0.068 | M | 25 | 50 | 280 | 0.20 | 300 |
| MOX-MPCI-0805-82 | 0.082 | M | 25 | 50 | 255 | 0.20 | 300 |
| MOX-MPCI-0805-R10 | 0.10 | K,M | 30 | 25 | 235 | 0.30 | 250 |
| MOX-MPCI-0805-R12 | 0.12 | K,M | 30 | 25 | 220 | 0.30 | 250 |
| MOX-MPCI-0805-R15 | 0.15 | K,M | 30 | 25 | 200 | 0.40 | 250 |
| MOX-MPCI-0805-R18 | 0.18 | K,M | 30 | 25 | 185 | 0.40 | 250 |
| MOX-MPCI-0805-R22 | 0.22 | K,M | 30 | 25 | 170 | 0.50 | 250 |
| MOX-MPCI-0805-R27 | 0.27 | K,M | 30 | 25 | 150 | 0.50 | 250 |
| MOX-MPCI-0805-R33 | 0.33 | K,M | 30 | 25 | 145 | 0.55 | 250 |
| MOX-MPCI-0805-R39 | 0.39 | K,M | 30 | 25 | 135 | 0.65 | 200 |
| MOX-MPCI-0805-R47 | 0.47 | K,M | 30 | 25 | 125 | 0.65 | 200 |
| MOX-MPCI-0805-R56 | 0.56 | K,M | 30 | 25 | 115 | 0.75 | 150 |
| MOX-MPCI-0805-R68 | 0.68 | K,M | 30 | 25 | 105 | 0.80 | 150 |
| MOX-MPCI-0805-R82 | 0.82 | K,M | 30 | 25 | 100 | 1.00 | 150 |
| MOX-MPCI-0805-1R0 | 1.00 | K,M | 45 | 10 | 75 | 0.45 | 50 |
| MOX-MPCI-0805-1R2 | 1.20 | K,M | 45 | 10 | 65 | 0.50 | 50 |
| MOX-MPCI-0805-1R5 | 1.50 | K,M | 45 | 10 | 60 | 0.50 | 50 |
| MOX-MPCI-0805-1R8 | 1.80 | K,M | 45 | 10 | 55 | 0.60 | 50 |
| MOX-MPCI-0805-2R2 | 2.20 | K,M | 45 | 10 | 50 | 0.65 | 30 |
| MOX-MPCI-0805-2R7 | 2.70 | K,M | 45 | 10 | 45 | 0.75 | 30 |
| MOX-MPCI-0805-3R3 | 3.30 | K,M | 45 | 10 | 41 | 0.80 | 30 |
| MOX-MPCI-0805-3R9 | 3.90 | K,M | 45 | 10 | 38 | 0.90 | 30 |
| MOX-MPCI-0805-4R7 | 4.70 | K,M | 45 | 10 | 35 | 1.00 | 30 |
| MOX-MPCI-0805-5R6 | 5.60 | K,M | 45 | 4 | 32 | 0.90 | 15 |
| MOX-MPCI-0805-6R8 | 6.80 | K,M | 45 | 4 | 29 | 1.00 | 15 |
| MOX-MPCI-0805-8R2 | 8.20 | K,M | 45 | 4 | 26 | 1.10 | 15 |
| MOX-MPCI-0805-100 | 10.00 | K,M | 45 | 2 | 24 | 1.15 | 15 |
| MOX-MPCI-0805-120 | 12.00 | K,M | 45 | 2 | 22 | 1.25 | 15 |
| MOX-MPCI-0805-150 | 15.00 | K,M | 30 | 1 | 19 | 0.80 | 5 |
| MOX-MPCI-0805-180 | 18.00 | K,M | 30 | 1 | 18 | 0.90 | 5 |

- Measuring Frequency (L) 100 kHz
- Available Tolerances: K= ±10%, M= 20%
- Q is measured on a HP-4287A RF LCR meter with a HP-16193 fixture attached.
- MoxiE Inductor Corporation specifications are subject to change without notice.



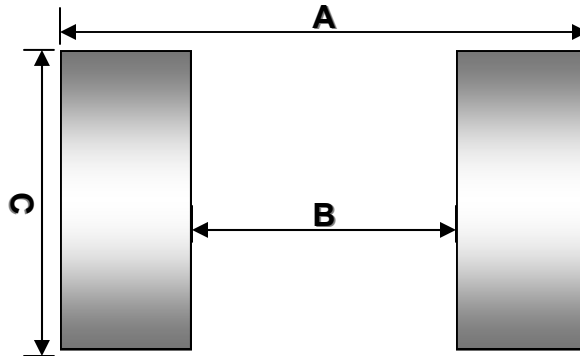
MOX-MPCI-1206 SPECIFICATIONS

| MoxiE Part Number | Inductance (µH) | Tolerance (%) | Q Minimum | Test Frequency | SRF Minimum (MHz) | RDC Max. (Ω) | IDC Max. (mA) |
|-------------------|-----------------|---------------|-----------|----------------|-------------------|--------------|---------------|
| MOX-MPCI-1206-47 | 0.047 | M | 25 | 50 | 320 | 0.15 | 300 |
| MOX-MPCI-1206-68 | 0.068 | M | 25 | 50 | 280 | 0.25 | 300 |
| MOX-MPCI-1206-82 | 0.082 | M | 25 | 50 | 250 | 0.25 | 300 |
| MOX-MPCI-1206-R10 | 0.10 | K,M | 30 | 25 | 235 | 0.25 | 250 |
| MOX-MPCI-1206-R12 | 0.12 | K,M | 30 | 25 | 220 | 0.30 | 250 |
| MOX-MPCI-1206-R15 | 0.15 | K,M | 30 | 25 | 200 | 0.30 | 250 |
| MOX-MPCI-1206-R18 | 0.18 | K,M | 30 | 25 | 185 | 0.40 | 250 |
| MOX-MPCI-1206-R22 | 0.22 | K,M | 30 | 25 | 170 | 0.40 | 250 |
| MOX-MPCI-1206-R27 | 0.27 | K,M | 30 | 25 | 150 | 0.50 | 250 |
| MOX-MPCI-1206-R33 | 0.33 | K,M | 30 | 25 | 145 | 0.60 | 250 |
| MOX-MPCI-1206-R39 | 0.39 | K,M | 30 | 25 | 135 | 0.60 | 200 |
| MOX-MPCI-1206-R47 | 0.47 | K,M | 30 | 25 | 125 | 0.60 | 200 |
| MOX-MPCI-1206-R56 | 0.56 | K,M | 30 | 25 | 115 | 0.70 | 150 |
| MOX-MPCI-1206-R68 | 0.68 | K,M | 30 | 25 | 105 | 0.80 | 150 |
| MOX-MPCI-1206-R82 | 0.82 | K,M | 30 | 25 | 100 | 0.90 | 150 |
| MOX-MPCI-1206-1R0 | 1.00 | K,M | 45 | 10 | 75 | 0.40 | 100 |
| MOX-MPCI-1206-1R2 | 1.20 | K,M | 45 | 10 | 65 | 0.50 | 100 |
| MOX-MPCI-1206-1R5 | 1.50 | K,M | 45 | 10 | 60 | 0.50 | 80 |
| MOX-MPCI-1206-1R8 | 1.80 | K,M | 45 | 10 | 55 | 0.50 | 70 |
| MOX-MPCI-1206-2R2 | 2.20 | K,M | 45 | 10 | 50 | 0.60 | 60 |
| MOX-MPCI-1206-2R7 | 2.70 | K,M | 45 | 10 | 45 | 0.60 | 60 |
| MOX-MPCI-1206-3R3 | 3.30 | K,M | 45 | 10 | 41 | 0.70 | 60 |
| MOX-MPCI-1206-3R9 | 3.90 | K,M | 45 | 10 | 38 | 0.80 | 50 |
| MOX-MPCI-1206-4R7 | 4.70 | K,M | 45 | 10 | 35 | 0.90 | 50 |
| MOX-MPCI-1206-5R6 | 5.60 | K,M | 45 | 4 | 32 | 0.70 | 25 |
| MOX-MPCI-1206-6R8 | 6.80 | K,M | 45 | 4 | 29 | 0.80 | 25 |
| MOX-MPCI-1206-8R2 | 8.20 | K,M | 45 | 4 | 26 | 0.90 | 25 |
| MOX-MPCI-1206-100 | 10.00 | K,M | 45 | 2 | 24 | 1.00 | 25 |
| MOX-MPCI-1206-120 | 12.00 | K,M | 45 | 2 | 22 | 1.05 | 15 |
| MOX-MPCI-1206-150 | 15.00 | K,M | 35 | 1 | 19 | 0.70 | 5 |
| MOX-MPCI-1206-180 | 18.00 | K,M | 35 | 1 | 18 | 0.75 | 5 |

- Measuring Frequency (L) 100 kHz
- Available Tolerances: K= ±10%, M= 20%
- Q is measured on a HP-4287A RF LCR meter with a HP-16193 fixture attached.
- MoxiE Inductor Corporation specifications are subject to change without notice.



LANDING PATTERN



| MOXIE PART NUMBER | A | B | C |
|-------------------|------|------|------|
| MOX-MPCI-0603 | 2.10 | 1.00 | 0.80 |
| MOX-MPCI-0805 | 2.60 | 1.20 | 0.90 |
| MOX-MPCI-1206 | 4.30 | 2.00 | 1.60 |



PACKAGING

| MOXIE PART NUMBER | PACKAGING | QUANTITY PER REEL |
|-------------------|-------------|-------------------|
| MOX-MPCI-0603 | TAPE & REEL | 4000 |
| MOX-MPCI-0805 | TAPE & REEL | 4000 |
| MOX-MPCI-1206 | TAPE & REEL | 2000 |

