

MOX-UPI-0804 SERIES

MoxiE's UPI-0804 surface mount power inductors are engineered for the stringent high current requirements of step up and step down transformers, notebook computers and various other handheld devices. MoxiE offers a unique industrial design to meet the most robust applications. The MOX-UPI-0804 is available in a wide range of inductance values to meet your design requirements.

MoxiE
INDUCTOR CORPORATION



Features:

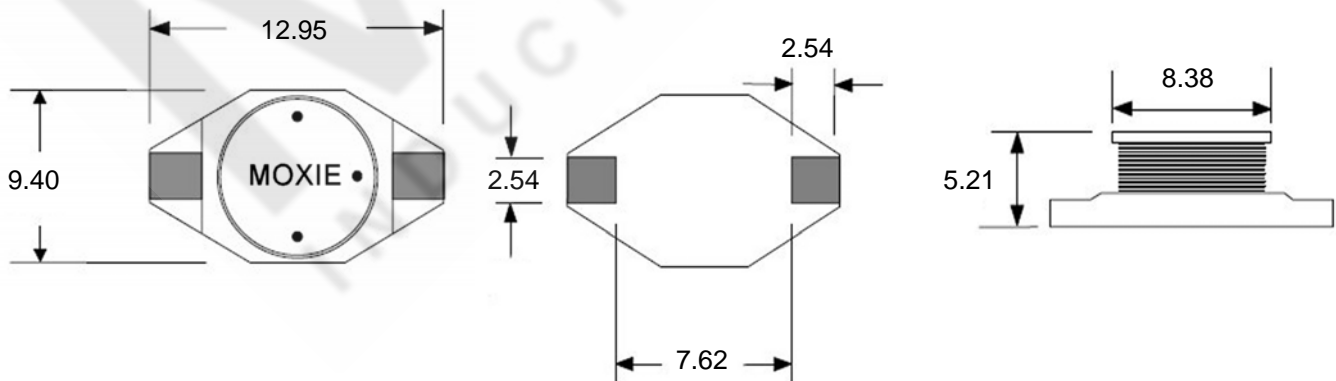
- RoHS compliant.
- High current ratings.
- Low cost.
- MoxiE custom designs available.



NOTES



MECHANICAL DIMENSIONS





ELECTRICAL SPECIFICATIONS

| MoxiE Part Number | Available Tolerances | Inductance (uH) | Test Frequency (kHz) | RDC (Ω Max.) | Isat (1) (A) | Irms (2) (A) | SRF (MHz)Typ. |
|---------------------|----------------------|-----------------|----------------------|----------------------|--------------|--------------|---------------|
| MOX-UPI-0804-1R0M-N | 20(M) | 1.0 | 100 KHz,0.1 V | 0.009 | 9.00 | 6.80 | 100.0 |
| MOX-UPI-0804-1R5M-N | 20(M) | 1.5 | 100 KHz,0.1 V | 0.010 | 8.00 | 6.40 | 90.0 |
| MOX-UPI-0804-2R2M-N | 20(M) | 2.2 | 100 KHz,0.1 V | 0.012 | 7.00 | 6.10 | 80.0 |
| MOX-UPI-0804-3R3M-N | 20(M) | 3.3 | 100 KHz,0.1 V | 0.015 | 6.40 | 5.40 | 65.0 |
| MOX-UPI-0804-4R7M-N | 20(M) | 4.7 | 100 KHz,0.1 V | 0.018 | 5.40 | 4.80 | 45.0 |
| MOX-UPI-0804-6R8M-N | 20(M) | 6.8 | 100 KHz,0.1 V | 0.027 | 4.60 | 4.40 | 38.0 |
| MOX-UPI-0804-100M-N | 20(M) | 10.0 | 100 KHz,0.1 V | 0.038 | 3.80 | 3.90 | 30.0 |
| MOX-UPI-0804-150M-N | 20(M) | 15.0 | 100 KHz,0.1 V | 0.046 | 3.00 | 3.10 | 27.0 |
| MOX-UPI-0804-220M-N | 20(M) | 22.0 | 100 KHz,0.1 V | 0.085 | 2.60 | 2.70 | 19.0 |
| MOX-UPI-0804-330M-N | 20(M) | 33.0 | 100 KHz,0.1 V | 0.100 | 2.00 | 2.10 | 15.0 |
| MOX-UPI-0804-470M-N | 20(M) | 47.0 | 100 KHz,0.1 V | 0.140 | 1.60 | 1.80 | 12.0 |
| MOX-UPI-0804-680M-N | 20(M) | 68.0 | 100 KHz,0.1 V | 0.200 | 1.40 | 1.50 | 10.0 |
| MOX-UPI-0804-101M-N | 20(M) | 100.0 | 100 KHz,0.1 V | 0.280 | 1.20 | 1.30 | 9.00 |
| MOX-UPI-0804-151M-N | 20(M) | 150.0 | 100 KHz,0.1 V | 0.400 | 1.00 | 1.00 | 6.00 |
| MOX-UPI-0804-221M-N | 20(M) | 220.0 | 100 KHz,0.1 V | 0.610 | 0.80 | 0.80 | 5.00 |
| MOX-UPI-0804-331M-N | 20(M) | 330.0 | 100 KHz,0.1 V | 1.020 | 0.60 | 0.60 | 4.50 |
| MOX-UPI-0804-471M-N | 20(M) | 470.0 | 100 KHz,0.1 V | 1.270 | 0.50 | 0.50 | 3.50 |
| MOX-UPI-0804-681M-N | 20(M) | 680.0 | 100 KHz,0.1 V | 2.020 | 0.40 | 0.40 | 2.50 |
| MOX-UPI-0804-102M-N | 20(M) | 1000.0 | 100 KHz,0.1 V | 3.000 | 0.30 | 0.30 | 2.00 |



ENGINEERING DATA

- (1) DC current at which the inductance drops 10% (typ) from its value without current.
- (2) Current that causes a 40°C temperature rise from 25°C ambient.
- Operating temperature range -40°C to +85°C.
- All electrical specifications are at 25°C.
- Inductance measured with zero DC current.
- Packaging: Tape & reel.
- Core material: Ferrite.
- Terminations: RoHS gold over nickel over phos bronze. MoxiE custom terminations available at extra cost.
- RoHS Compliant.
- MoxiE Inductor Corporation custom specifications are subject to United States patent and or copyright protection(s).
- MoxiE Inductor Corporation specifications are subject to change without notice.