

# MOX-MXHQV-4532-SERIES

**MoxiE**  
INDUCTOR CORPORATION

## Surface Mount Wire Wound Ferrite Chip Inductors

MoxiE's MOX-MXHQV-4532 series of surface mount chip inductors are wound around a special ferrite core and are excellent to be used as a choke coil in DC power supply circuits.

### Features:

- Low Cost.
- RoHS compliant.
- High current capacity & low DC resistance.
- Excellent solderability & resistance to soldering heat.
- Suitable for use as choke coils in DC power supply circuits.
- Wide range of inductance values to accommodate various designs.

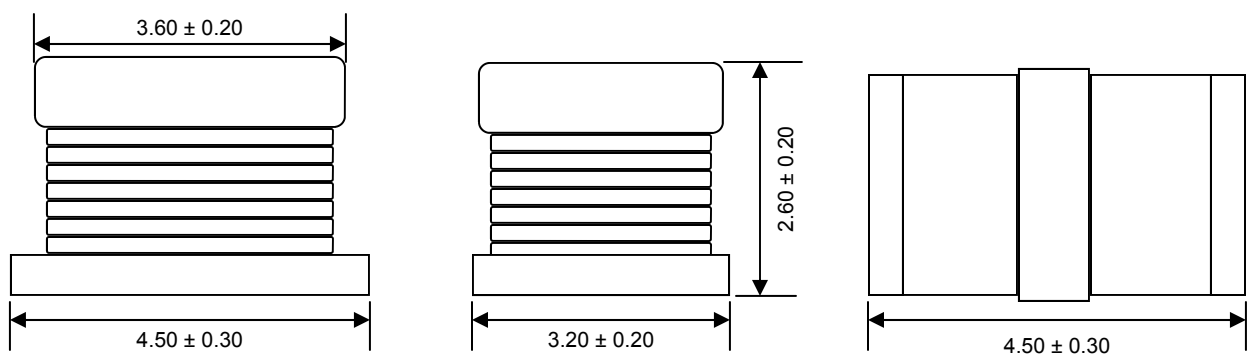


## ENGINEERING NOTES

- **Rated Current:** Self temperature rise shall be limited to 35°C maximum. Inductance drops 10% typical.
- **Available Tolerances:** J=±5%, K= ±10%, M =±20%
- **Operating Temperature:** -25°C to 105°C.
- **Soldering Heat:** 260°C for 10 seconds after 150°C preheat cycle for 4 minutes.
- **MoxiE Test Equipment:** (L) HP4192 LF Impedance Analyzer. (SRF) HP4291A RF Impedance Analyzer. (DCR) CH502BC.
- RoHS Compliant.
- **Packaging:** Tape & Reel (500 pieces per reel)
- MoxiE Inductor Corporation specifications are subject to change without notice.

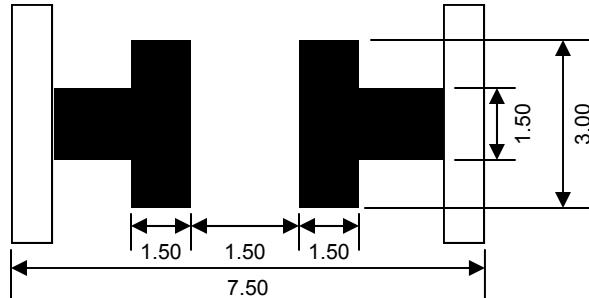


## MECHANICAL DIMENSIONS





## LANDING PATTERN



## ELECTRICAL SPECIFICATIONS

| MoxiE Part Number   | Inductance (µH) | Tolerance % (J=5, K=10, M=20) | Q Min. | Test Frequency (MHz) | DC Resistance (Ω Max.) | SRF (MHz) Min. | Rated Current (mA) |
|---------------------|-----------------|-------------------------------|--------|----------------------|------------------------|----------------|--------------------|
| MOX-MXHQV-4532-1R0□ | 1.0             | 20                            | 20     | 1.00                 | 0.20                   | 120            | 500                |
| MOX-MXHQV-4532-1R2□ | 1.2             | 20                            | 20     | 1.00                 | 0.20                   | 100            | 500                |
| MOX-MXHQV-4532-1R5□ | 1.5             | 20                            | 20     | 1.00                 | 0.30                   | 85             | 500                |
| MOX-MXHQV-4532-1R8□ | 1.8             | 20                            | 20     | 1.00                 | 0.30                   | 75             | 500                |
| MOX-MXHQV-4532-2R2□ | 2.2             | 20                            | 20     | 1.00                 | 0.30                   | 62             | 500                |
| MOX-MXHQV-4532-2R7□ | 2.7             | 20                            | 20     | 1.00                 | 0.32                   | 53             | 500                |
| MOX-MXHQV-4532-3R3□ | 3.3             | 20                            | 20     | 1.00                 | 0.35                   | 47             | 500                |
| MOX-MXHQV-4532-3R9□ | 3.9             | 20                            | 20     | 1.00                 | 0.38                   | 41             | 500                |
| MOX-MXHQV-4532-4R7□ | 4.7             | 20/10                         | 30     | 1.00                 | 0.40                   | 38             | 500                |
| MOX-MXHQV-4532-5R6□ | 5.6             | 20/10                         | 30     | 1.00                 | 0.47                   | 33             | 500                |
| MOX-MXHQV-4532-6R8□ | 6.8             | 20/10                         | 30     | 1.00                 | 0.50                   | 31             | 450                |
| MOX-MXHQV-4532-8R2□ | 8.2             | 20/10                         | 30     | 1.00                 | 0.56                   | 27             | 450                |
| MOX-MXHQV-4532-100□ | 10.0            | 10/5                          | 35     | 1.00                 | 0.56                   | 23             | 400                |
| MOX-MXHQV-4532-120□ | 12.0            | 10/5                          | 35     | 1.00                 | 0.62                   | 21             | 380                |
| MOX-MXHQV-4532-150□ | 15.0            | 10/5                          | 35     | 1.00                 | 0.73                   | 19             | 360                |
| MOX-MXHQV-4532-180□ | 18.0            | 10/5                          | 35     | 1.00                 | 0.82                   | 17             | 340                |
| MOX-MXHQV-4532-220□ | 22.0            | 10/5                          | 35     | 1.00                 | 0.94                   | 15             | 320                |
| MOX-MXHQV-4532-270□ | 27.0            | 10/5                          | 35     | 1.00                 | 1.10                   | 14             | 300                |
| MOX-MXHQV-4532-330□ | 33.0            | 10/5                          | 35     | 1.00                 | 1.20                   | 12             | 270                |
| MOX-MXHQV-4532-390□ | 39.0            | 10/5                          | 35     | 1.00                 | 1.40                   | 11             | 240                |
| MOX-MXHQV-4532-470□ | 47.0            | 10/5                          | 35     | 1.00                 | 1.50                   | 10             | 220                |
| MOX-MXHQV-4532-560□ | 56.0            | 10/5                          | 35     | 1.00                 | 1.70                   | 9.3            | 200                |
| MOX-MXHQV-4532-680□ | 68.0            | 10/5                          | 35     | 1.00                 | 1.90                   | 8.4            | 180                |
| MOX-MXHQV-4532-820□ | 82.0            | 10/5                          | 35     | 1.00                 | 2.20                   | 7.5            | 170                |
| MOX-MXHQV-4532-101□ | 100.0           | 10/5                          | 40     | 0.796                | 2.50                   | 6.8            | 160                |
| MOX-MXHQV-4532-121□ | 120.0           | 10/5                          | 40     | 0.796                | 3.00                   | 6.2            | 150                |
| MOX-MXHQV-4532-151□ | 150.0           | 10/5                          | 40     | 0.796                | 3.70                   | 5.5            | 130                |
| MOX-MXHQV-4532-181□ | 180.0           | 10/5                          | 40     | 0.796                | 4.50                   | 5.0            | 120                |
| MOX-MXHQV-4532-221□ | 220.0           | 10/5                          | 40     | 0.796                | 5.40                   | 4.5            | 110                |
| MOX-MXHQV-4532-271□ | 270.0           | 10/5                          | 40     | 0.796                | 6.80                   | 4.0            | 100                |
| MOX-MXHQV-4532-331□ | 330.0           | 10/5                          | 40     | 0.796                | 8.20                   | 3.6            | 95                 |
| MOX-MXHQV-4532-391□ | 390.0           | 10/5                          | 40     | 0.796                | 9.70                   | 3.3            | 90                 |
| MOX-MXHQV-4532-471□ | 470.0           | 10/5                          | 40     | 0.796                | 11.80                  | 3.0            | 80                 |
| MOX-MXHQV-4532-561□ | 560.0           | 10/5                          | 40     | 0.796                | 14.50                  | 2.7            | 70                 |
| MOX-MXHQV-4532-681□ | 680.0           | 10/5                          | 40     | 0.796                | 17.50                  | 2.5            | 65                 |
| MOX-MXHQV-4532-821□ | 820.0           | 10/5                          | 40     | 0.796                | 20.50                  | 2.2            | 60                 |
| MOX-MXHQV-4532-102□ | 1000.0          | 10/5                          | 40     | 0.252                | 25.00                  | 2.0            | 50                 |
| MOX-MXHQV-4532-122□ | 1200.0          | 10/5                          | 40     | 0.252                | 30.00                  | 1.8            | 45                 |
| MOX-MXHQV-4532-152□ | 1500.0          | 10/5                          | 40     | 0.252                | 37.00                  | 1.6            | 40                 |
| MOX-MXHQV-4532-182□ | 1800.0          | 10/5                          | 40     | 0.252                | 45.00                  | 1.5            | 35                 |
| MOX-MXHQV-4532-222□ | 2200.0          | 10/5                          | 40     | 0.252                | 50.00                  | 1.3            | 30                 |