

# MOX-SPI-4745

## Surface Mount Shielded Inductors For Power Lines

- Designed for portable DC to DC converter lines.
- Ultra low profile 1.40mm maximum height.
- Industrial operating temperature: -40°C to +105°C.
- High magnetically shielded construction .
- RoHS compliant.
- MoxiE Inductor Corporation custom inductance values available.



## NOTES

---

---

---

---

---

---

---

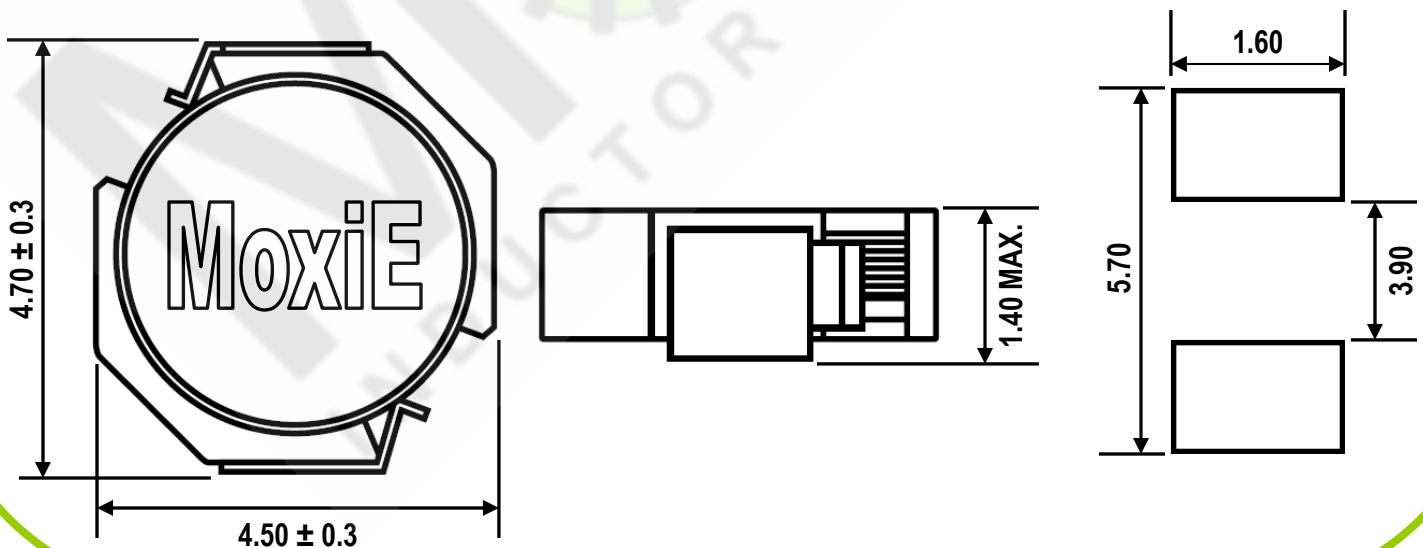
---

---

---



## MECHANICAL DIMENSIONS (mm)





## ELECTRICAL SPECIFICATIONS

MOXIE PART NUMBER	INDUCTANCE @ 50% I <sub>dc1</sub> (μH)	INDUCTANCE TOLERANCE (%)	TEST FREQUENCY (kHz)	DCR (Ω)		RATED CURRENT (A)	
				MAX.	TYP.	BASED ON INDUCTANCE CHANGE I <sub>dc1</sub> <sup>1</sup> MAX.	BASED ON TEMPERATURE RISE I <sub>dc2</sub> <sup>2</sup> TYP.
MOX-SPI-4745-1R5M	1.5	±20	100	0.057	0.050	3.00	1.74
MOX-SPI-4745-2R2M	2.2	±20	100	0.071	0.058	2.60	1.68
MOX-SPI-4745-2R7M	2.7	±20	100	0.076	0.066	2.30	1.55
MOX-SPI-4745-4R7M	4.7	±20	100	0.12	0.11	1.75	1.20
MOX-SPI-4745-6R8M	6.8	±20	100	0.18	0.15	1.50	1.10
MOX-SPI-4745-100M	10	±20	100	0.21	0.18	1.14	0.94
MOX-SPI-4745-150M	15	±20	100	0.32	0.28	0.98	0.79
MOX-SPI-4745-220M	22	±20	100	0.45	0.39	0.83	0.65
MOX-SPI-4745-330M	33	±20	100	0.72	0.63	0.65	0.54
MOX-SPI-4745-470M	47	±20	100	1.10	0.94	0.56	0.44
MOX-SPI-4745-101M	100	±20	100	2.69	2.40	0.39	0.28
MOX-SPI-4745-151M	150	±20	100	3.50	3.25	0.28	0.20

### MoxiE Engineering Notes:

- <sup>1</sup>Rated current: Value obtained when current flows and the temperature has risen to 40°C or when DC current flows and the nominal value of inductance has fallen by 30%, whichever is less.
- <sup>2</sup>Inductance is at 1/2 I<sub>dc1</sub> power distribution. The L value at 0A is higher than the guaranteed performance.
- Operating temperature range: -40 to +105°C (Including self-temperature rise)
- Packaging: Tape & Reel (1,000 pieces per reel) MoxiE custom reel packaging available upon request.
- MoxiE Inductor Corporation specifications are subject to change without notice.
- MoxiE Inductor Corporation custom designed products are subject to United States Copyright and or Patent protection(s)