

MOX-SPIF-0745-SERIES

Surface Mount Shielded Power Inductors

MoxiE[®]
INDUCTOR CORPORATION

- Shielded construction.
- Inductance range from 1.0 μ H to 1000.0 μ H
- Current ratings up to 35.0 Amps
- Operating temperature: -40°C to +85°C.
- Excellent solderability & resistance to soldering heat.
- RoHS compliant.
- Packaging: Tape & Reel (1,000 pieces per reel).
- MoxiE Inductor Corporation custom designs available.

MOX-SPIF-0745-SERIES



SMD SHIELDED INDUCTORS



NOTES

Temperature rise: +40°C.

RoHS Compliant.

Rated current based on temperature rise & $\Delta L/L_0A = 10\%$ maximum.

Operating temperature: -40°C to +125°C.

Storage temperature: -40°C to +125°C.

Resistance to soldering heat: +260°C for ten (10) seconds.

Core: Ferrite DR and RI.

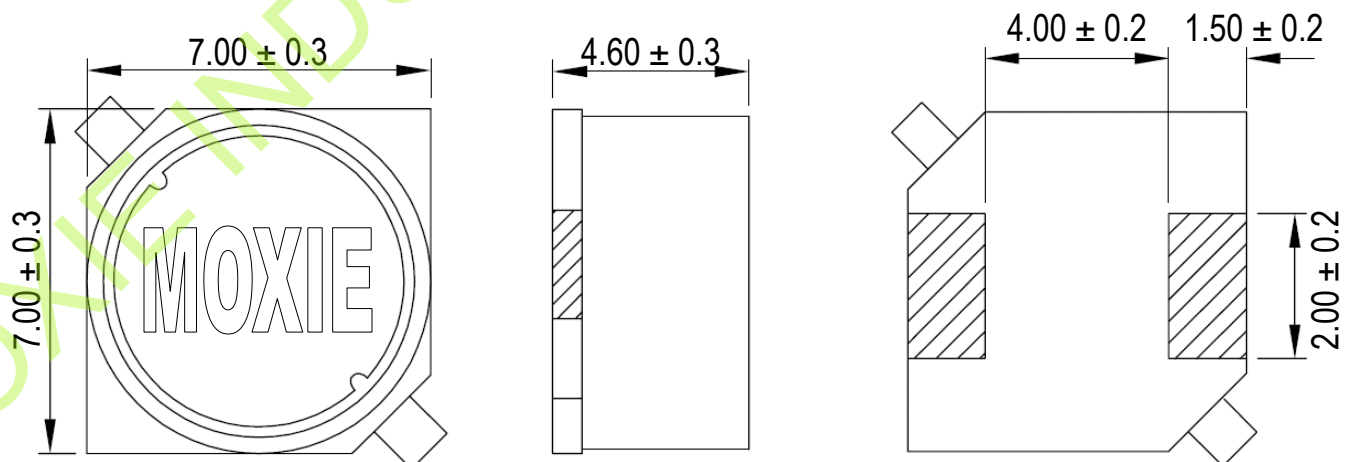
Wire: Enameled copper wire. (130)

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).

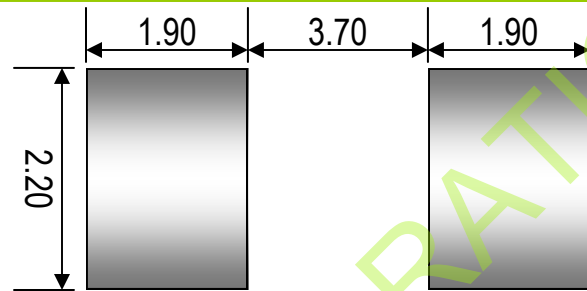
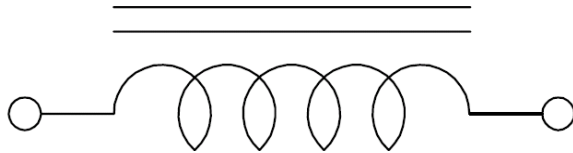


MECHANICAL DIMENSIONS (mm)





SCHEMATIC & RECOMMENDED LAYOUT



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (μH)	Tolerance (±)	Test Frequency	RDC (mΩ) Max.	IDC (A) Max.
MOX-SPIF-0745-1R0M	1.00	20%	1V/ 100KHz	20	3.20
MOX-SPIF-0745-1R5M	1.50	20%	1V/ 100KHz	23	2.95
MOX-SPIF-0745-2R2M	2.20	20%	1V/ 100KHz	26	2.80
MOX-SPIF-0745-3R3M	3.30	20%	1V/ 100KHz	30	3.10
MOX-SPIF-0745-4R7M	4.70	20%	1V/ 100KHz	36	2.20
MOX-SPIF-0745-6R8M	6.80	20%	1V/ 100KHz	45	2.00
MOX-SPIF-0745-100M	10.00	20%	1V/ 100KHz	60	1.75
MOX-SPIF-0745-120M	12.00	20%	1V/ 100KHz	65	1.65
MOX-SPIF-0745-150M	15.00	20%	1V/ 100KHz	70	1.55
MOX-SPIF-0745-180M	18.00	20%	1V/ 100KHz	80	1.25
MOX-SPIF-0745-220M	22.00	20%	1V/ 100KHz	90	1.20
MOX-SPIF-0745-270M	27.00	20%	1V/ 100KHz	120	1.10
MOX-SPIF-0745-330M	33.00	20%	1V/ 100KHz	135	1.00
MOX-SPIF-0745-390M	39.00	20%	1V/ 100KHz	150	0.95
MOX-SPIF-0745-470M	47.00	20%	1V/ 100KHz	170	0.88
MOX-SPIF-0745-560M	56.00	20%	1V/ 100KHz	230	0.75
MOX-SPIF-0745-680M	68.00	20%	1V/ 100KHz	270	0.70
MOX-SPIF-0745-820M	82.00	20%	1V/ 100KHz	300	0.60
MOX-SPIF-0745-101M	100.00	20%	1V/ 100KHz	360	0.55
MOX-SPIF-0745-121M	120.00	20%	1V/ 100KHz	400	0.49
MOX-SPIF-0745-151M	150.00	20%	1V/ 100KHz	530	0.45
MOX-SPIF-0745-181M	180.00	20%	1V/ 100KHz	600	0.42
MOX-SPIF-0745-221M	220.00	20%	1V/ 100KHz	800	0.38
MOX-SPIF-0745-271M	270.00	20%	1V/ 100KHz	900	0.35
MOX-SPIF-0745-331M	330.00	20%	1V/ 100KHz	1000	0.33
MOX-SPIF-0745-391M	390.00	20%	1V/ 100KHz	1400	0.29
MOX-SPIF-0745-471M	470.00	20%	1V/ 100KHz	1600	0.27
MOX-SPIF-0745-561M	560.00	20%	1V/ 100KHz	1750	0.26
MOX-SPIF-0745-681M	680.00	20%	1V/ 100KHz	1800	0.25
MOX-SPIF-0745-821M	820.00	20%	1V/ 100KHz	2200	0.25
MOX-SPIF-0745-102M	1000.00	20%	1V/ 100KHz	2400	0.24