

# MOX-SPID Series

**MoxiE**  
INDUCTOR CORPORATION

## Low Profile, High Density Surface Mount Power Inductors

MoxiE's SPID series of surface mount power inductors offer a low profile design while providing high power density.

### Features:

- Low cost.
- Ferrite shielded that provides low EMI.
- High current.
- Low profile package design.
- Available Tolerances:  $\pm 20\%$
- RoHS Compliant.

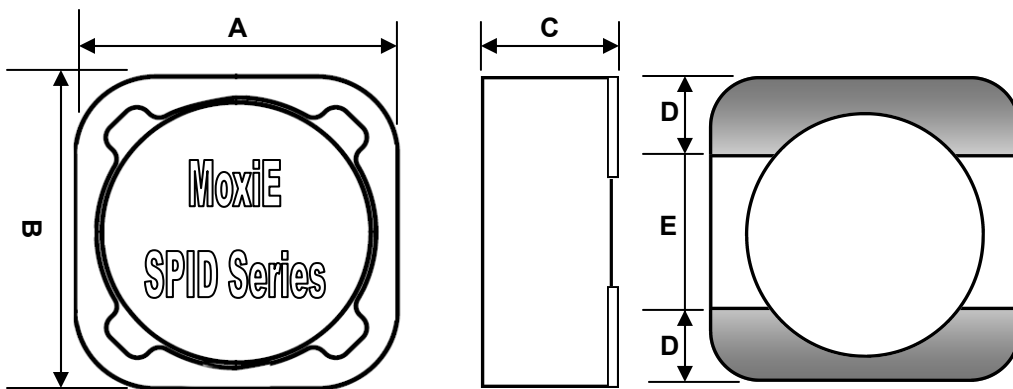


## PART NUMBERS

MoxiE Part Number	A	B	C	D	E
MOX-SPID-3815	$3.8 \pm 0.3$	$3.8 \pm 0.3$	1.5 MAX.	1.2 TYP.	1.0 TYP.
MOX-SPID-5015	$5.0 \pm 0.3$	$5.0 \pm 0.3$	1.4 MAX.	1.5 TYP.	1.5 TYP.
MOX-SPID-5020	$5.0 \pm 0.3$	$5.3 \pm 0.3$	2.0 MAX.	1.7 TYP.	1.6 TYP.
MOX-SPID-5820	$5.8 \pm 0.3$	$5.8 \pm 0.3$	2.0 MAX.	2.2 TYP.	1.4 TYP.



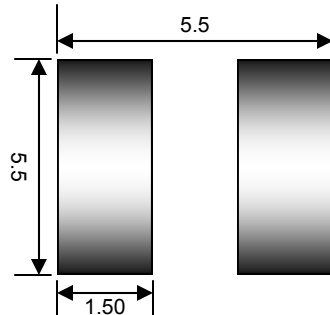
## MECHANICAL DIMENSIONS



**MOXIE NOTE:  
ALL DIMENSIONS  
ARE IN MM.**



## LANDING PATTERN



## ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (µH)	Tolerance (%)	Test Frequency	RDC (Ω) Max.	IDC (A) Max.
MOX-SPID-3815-4R7M	4.7	20% (M)	100KHz	0.30	0.80
MOX-SPID-3815-6R8M	6.8	20% (M)	100KHz	0.42	0.80
MOX-SPID-3815-100M	10	20% (M)	100KHz	0.56	0.77
MOX-SPID-5015-2R2M	2.2	20% (M)	100KHz	0.1	1.9
MOX-SPID-5015-3R3M	3.3	20% (M)	100KHz	0.16	1.7
MOX-SPID-5015-4R7M	4.7	20% (M)	100KHz	0.22	1.20
MOX-SPID-5015-5R6M	5.6	20% (M)	100KHz	0.30	1.17
MOX-SPID-5015-6R8M	6.8	20% (M)	100KHz	0.34	1.15
MOX-SPID-5015-100M	10	20% (M)	100KHz	0.39	1.10
MOX-SPID-5015-150M	15	20% (M)	100KHz	0.54	0.70
MOX-SPID-5015-220M	22	20% (M)	100KHz	0.95	0.60
MOX-SPID-5015-470M	47	20% (M)	100KHz	1.90	0.45
MOX-SPID-5015-680M	68	20% (M)	100KHz	3.50	0.30
MOX-SPID-5015-101M	100	20% (M)	100KHz	5.00	0.30
MOX-SPID-5020-4R7M	4.7	20% (M)	100KHz	0.115	1.40
MOX-SPID-5020-5R6M	5.6	20% (M)	100KHz	0.14	1.30
MOX-SPID-5020-6R8M	6.8	20% (M)	100KHz	0.17	1.10
MOX-SPID-5020-8R2M	8.2	20% (M)	100KHz	0.20	1.00
MOX-SPID-5020-100M	10	20% (M)	100KHz	0.26	0.95
MOX-SPID-5820-1R2M	1.2	20% (M)	100KHz	0.03	3.50
MOX-SPID-5820-2R5M	2.5	20% (M)	100KHz	0.056	2.70
MOX-SPID-5820-3R9M	3.9	20% (M)	100KHz	0.08	2.20
MOX-SPID-5820-6R8M	6.8	20% (M)	100KHz	0.12	1.70
MOX-SPID-5820-100M	10	20% (M)	100KHz	0.18	1.40
MOX-SPID-5820-150M	15	20% (M)	100KHz	0.25	1.15
MOX-SPID-5820-180M	18	20% (M)	100KHz	0.35	1.05
MOX-SPID-5820-220M	22	20% (M)	100KHz	0.46	0.85
MOX-SPID-5820-470M	47	20% (M)	100KHz	0.90	0.60
MOX-SPID-5820-680M	68	20% (M)	100KHz	1.40	0.55
MOX-SPID-5820-101M	100	20% (M)	100KHz	2.90	0.40

- Current for approximately 10% typical inductance drop or 40°C rise.
- MoxiE electrical specifications at 25°C.
- Packaging: Tape & Reel.
- MoxiE Inductor Corporation specifications are subject to change without notice.