

MOX-SPI-5D28

MoxiE
INDUCTOR CORPORATION

Low Profile Surface Mount Power Inductors

MoxiE's SPI-5D28 series of surface mount power inductors offer a low DCR while providing a high current. An industry leading temperature range of $-40^{\circ}+105^{\circ}\text{C}$ is standard.

Features:

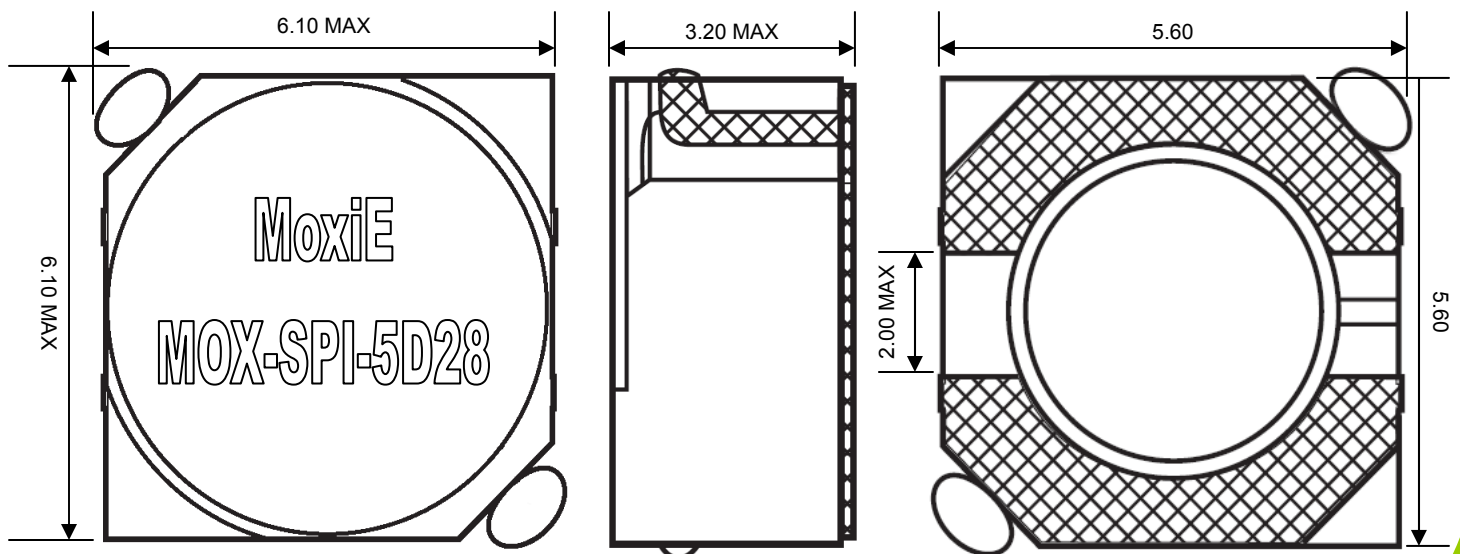
- Low Cost.
- Small Package.
- High Current.
- Operating Temperature: -40°C to $+105^{\circ}\text{C}$.
- Available Tolerances: $\pm 20\%$
- RoHS Compliant.



NOTES

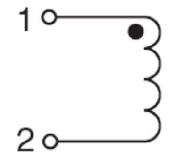
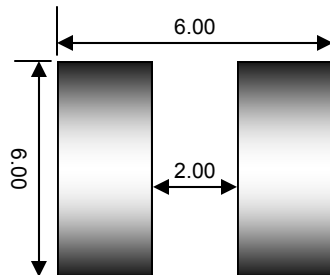


MECHANICAL DIMENSIONS





LANDING PATTERN & SCHEMATIC



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (μH)	Tolerance (%)	RDC (Ω) Max.	Isat (A) 10% Drop	Isat (A) 30% Drop	Irms (A) 40°C Rise
MOX-SPI-5D28-2R5M	2.5	20% (M)	0.018	2.60	3.25	3.87
MOX-SPI-5D28-3R0M	3.0	20% (M)	0.024	2.40	3.10	3.52
MOX-SPI-5D28-4R2M	4.2	20% (M)	0.031	2.20	3.05	3.10
MOX-SPI-5D28-5R3M	5.3	20% (M)	0.038	1.90	2.84	2.95
MOX-SPI-5D28-6R2M	6.2	20% (M)	0.045	1.80	2.30	2.80
MOX-SPI-5D28-8R2M	8.2	20% (M)	0.053	1.60	2.25	2.75
MOX-SPI-5D28-100M	10	20% (M)	0.065	1.35	2.05	2.52
MOX-SPI-5D28-120M	12	20% (M)	0.076	1.27	1.88	2.47
MOX-SPI-5D28-150M	15	20% (M)	0.103	1.22	1.74	2.40
MOX-SPI-5D28-180M	18	20% (M)	0.110	1.00	1.36	2.15
MOX-SPI-5D28-220M	22	20% (M)	0.112	0.90	1.25	1.92
MOX-SPI-5D28-270M	27	20% (M)	0.175	0.85	1.20	1.78
MOX-SPI-5D28-330M	33	20% (M)	0.189	0.75	1.12	1.62
MOX-SPI-5D28-390M	39	20% (M)	0.212	0.70	1.10	1.47
MOX-SPI-5D28-470M	47	20% (M)	0.250	0.62	0.99	1.31
MOX-SPI-5D28-560M	56	20% (M)	0.305	0.58	0.95	1.17
MOX-SPI-5D28-680M	68	20% (M)	0.355	0.52	0.79	1.04
MOX-SPI-5D28-820M	82	20% (M)	0.463	0.46	0.69	0.89
MOX-SPI-5D28-101M	100	20% (M)	0.520	0.42	0.59	0.70



MOX-SPI-5D28 ENGINEERING NOTES

- RoHS compliant
- Packaging: Tape & Reel.
- Heat Rating: DC Current (A) that will cause an approximate ΔT of 40°C.
- Saturation: DC Current (A) that will cause Lo to drop approximately 20%.
- The part temperature (ambient + temperature rise) should not exceed 125°C under the worst case operating conditions.
- Part temperature should be verified in the end application(s).
- MoxiE Inductor Corporation specifications are subject to change without notice.
- Revision A