

MOX-SPI-6D35



Low Profile Surface Mount Power Inductors

MoxiE's SPI-6D35 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.
- Low Profile Package.
- High Current.
- Operating Temperature: -40°C to $+105^{\circ}\text{C}$.
- Available Tolerances: $\pm 20\%$ & $\pm 30\%$.
- RoHS Compliant.

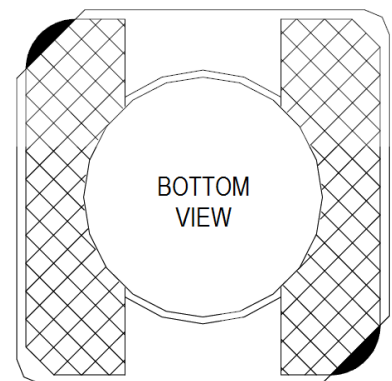
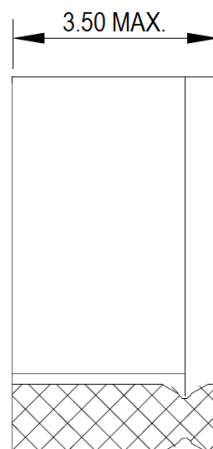
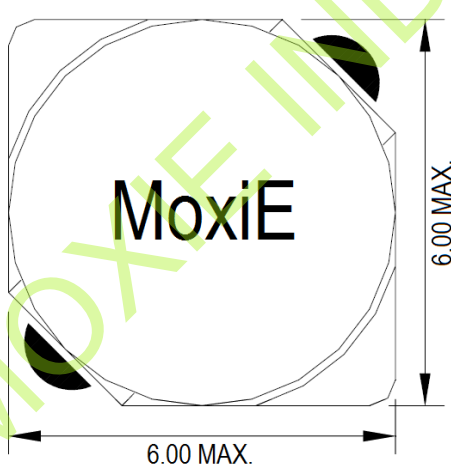


NOTES

- 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 L_o to drop approximately 20%.
- The part temperature (ambient + temperature rise) should not exceed 105°C under the worst case operating conditions.
- Part temperature should be verified in the end application(s).

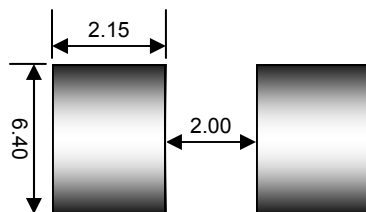


MECHANICAL DIMENSIONS





LANDING PATTERN & SCHEMATIC



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (μH)	Tolerance (±)	RDC (Ω) Max.	Isat (A) Maximum	Irms (A) Maximum	SRF (MHz) Typical
MOX-SPI-6D35-6R8N	6.80	30%	0.075	2.85	1.90	55
MOX-SPI-6D35-8R2N	8.20	30%	0.095	2.75	1.85	48
MOX-SPI-6D35-100M	10.0	20%	0.100	2.60	1.85	37
MOX-SPI-6D35-120M	12.0	20%	0.110	2.55	1.82	29
MOX-SPI-6D35-150M	15.0	20%	0.125	2.05	1.73	25
MOX-SPI-6D35-180M	18.0	20%	0.140	1.90	1.65	24
MOX-SPI-6D35-220M	22.0	20%	0.145	1.70	1.60	24
MOX-SPI-6D35-330M	33.0	20%	0.180	1.50	1.30	16
MOX-SPI-6D35-470M	47.0	20%	0.245	1.20	1.15	13
MOX-SPI-6D35-560M	56.0	20%	0.280	1.10	1.10	12
MOX-SPI-6D35-680M	68.0	20%	0.345	0.96	1.02	10.8
MOX-SPI-6D35-820M	82.0	20%	0.315	0.55	0.95	10.0
MOX-SPI-6D35-101M	100.0	20%	0.375	0.54	0.92	9.0
MOX-SPI-6D35-121M	120.0	20%	0.435	0.51	0.83	8.3
MOX-SPI-6D35-151M	150.0	20%	0.535	0.45	0.74	7.3
MOX-SPI-6D35-221M	220.0	20%	0.720	0.37	0.65	5.6
MOX-SPI-6D35-331M	330.0	20%	1.020	0.30	0.57	4.4
MOX-SPI-6D35-471M	470.0	20%	1.580	0.26	0.52	3.6
MOX-SPI-6D35-561M	560.0	20%	1.750	0.23	0.48	3.1
MOX-SPI-6D35-681M	680.0	20%	1.970	0.21	0.42	2.8
MOX-SPI-6D35-821M	820.0	20%	2.700	0.19	0.34	2.5
MOX-SPI-6D35-102M	1000.0	20%	3.200	0.18	0.32	2.2
MOX-SPI-6D35-152M	1500.0	20%	4.600	0.14	0.28	1.9
MOX-SPI-6D35-182M	1800.0	20%	5.420	0.13	0.25	1.7
MOX-SPI-6D35-222M	2200.0	20%	6.400	0.11	0.24	1.5
MOX-SPI-6D35-332M	3300.0	20%	8.900	0.10	0.19	1.1
MOX-SPI-6D35-472M	4700.0	20%	14.00	0.084	0.16	0.94
MOX-SPI-6D35-562M	5600.0	20%	16.40	0.085	0.14	0.86
MOX-SPI-6D35-682M	6800.0	20%	21.40	0.080	0.13	0.80
MOX-SPI-6D35-822M	8200.0	20%	24.00	0.078	0.12	0.70
MOX-SPI-6D35-103M	10000.0	20%	29.00	0.074	0.11	0.61