

MOX-SPI-4012S

LOW PROFILE SHIELDED POWER INDUCTORS

MoxiE
INDUCTOR CORPORATION

MoxiE's MOX-SPI-4012S series of shielded power inductors are engineered to provide very low DCR while offering excellent current handling.

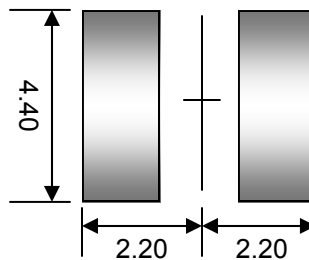
Features:

- Low cost.
- RoHS compliant.
- Low profile shielded construction.
- High current handling design.
- MoxiE custom inductance values and tolerance available.

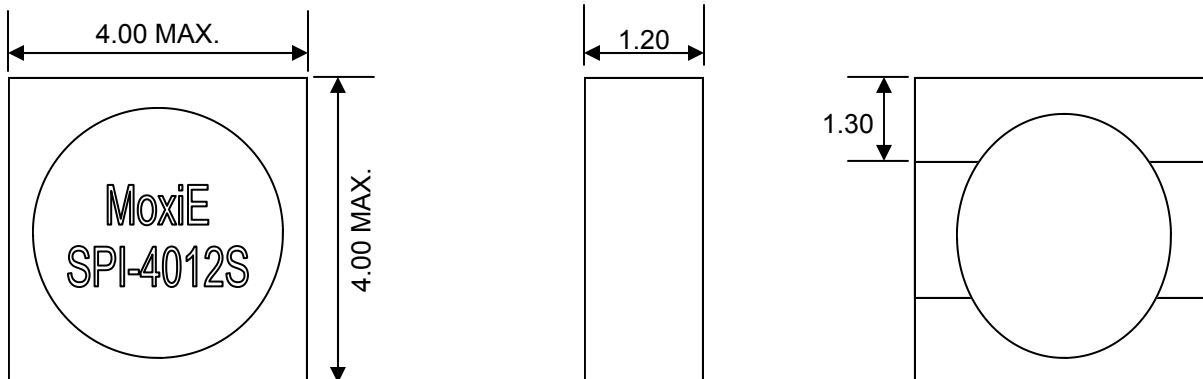


LANDING PATTERN

NOTE:
ALL DIMENSIONS IN MM



MECHANICAL DIMENSIONS





MOX-SPI-4012S ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (μH)	Test Frequency	Tolerance (±)	DCR (Ω) Max.	Isat* (A)	Irms** (A) 40°C Rise
MOX-SPI-4012S-R33N	0.33	100.0 KHz/0.1V	30%	0.023	5.25	3.80
MOX-SPI-4012S-R68N	0.68	100.0 KHz/0.1V	30%	0.055	3.75	2.50
MOX-SPI-4012S-1R0M	1.00	100.0 KHz/0.1V	20%	0.060	2.75	2.50
MOX-SPI-4012S-1R5M	1.50	100.0 KHz/0.1V	20%	0.070	2.70	2.30
MOX-SPI-4012S-2R2M	2.20	100.0 KHz/0.1V	20%	0.100	2.25	1.85
MOX-SPI-4012S-3R3M	3.30	100.0 KHz/0.1V	20%	0.100	1.50	2.10
MOX-SPI-4012S-4R7M	4.70	100.0 KHz/0.1V	20%	0.175	1.60	1.50
MOX-SPI-4012S-6R8M	6.80	100.0 KHz/0.1V	20%	0.26	1.45	1.20
MOX-SPI-4012S-100M	10.0	100.0 KHz/0.1V	20%	0.34	0.98	1.00
MOX-SPI-4012S-150M	15.0	100.0 KHz/0.1V	20%	0.35	0.80	0.78
MOX-SPI-4012S-180M	18.0	100.0 KHz/0.1V	20%	0.55	0.74	0.75
MOX-SPI-4012S-220M	22.0	100.0 KHz/0.1V	20%	0.60	0.45	0.72
MOX-SPI-4012S-330M	33.0	100.0 KHz/0.1V	20%	0.82	0.35	0.65
MOX-SPI-4012S-470M	47.0	100.0 KHz/0.1V	20%	1.35	0.32	0.55
MOX-SPI-4012S-680M	68.0	100.0 KHz/0.1V	20%	1.70	0.35	0.48
MOX-SPI-4012S-101M	100.0	100.0 KHz/0.1V	20%	2.40	0.25	0.42
MOX-SPI-4012S-121M	120.0	100.0 KHz/0.1V	20%	3.30	0.23	0.38
MOX-SPI-4012S-151M	150.0	100.0 KHz/0.1V	20%	3.50	0.21	0.35
MOX-SPI-4012S-181M	180.0	100.0 KHz/0.1V	20%	5.00	0.19	0.32
MOX-SPI-4012S-221M	220.0	100.0 KHz/0.1V	20%	5.20	0.16	0.29
MOX-SPI-4012S-331M	330.0	100.0 KHz/0.1V	20%	7.15	0.15	0.225
MOX-SPI-4012S-471M	470.0	100.0 KHz/0.1V	20%	10.00	0.12	0.18
MOX-SPI-4012S-561M	560.0	100.0 KHz/0.1V	20%	12.50	0.11	0.145
MOX-SPI-4012S-681M	680.0	100.0 KHz/0.1V	20%	12.50	0.10	0.14
MOX-SPI-4012S-821M	820.0	100.0 KHz/0.1V	20%	13.50	0.10	0.135
MOX-SPI-4012S-102M	1000.0	100.0 KHz/0.1V	20%	20.00	0.092	0.132
MOX-SPI-4012S-152M	1500.0	100.0 KHz/0.1V	20%	21.50	0.090	0.12
MOX-SPI-4012S-182M	1800.0	100.0 KHz/0.1V	20%	35.50	0.083	0.11
MOX-SPI-4012S-221M	2200.0	100.0 KHz/0.1V	20%	39.50	0.082	0.10
MOX-SPI-4012S-331M	3300.0	100.0 KHz/0.1V	20%	76.00	0.075	0.09



ENGINEERING NOTES

- Inductance tested at 100kHz, 0.1V Vrms.
- DCR measured on a micro-ohmmeter.
- SRF measured using Agilent/HP 8753ES or equivalent.
- *DC current that causes the specified inductance drop from its initial value without current.
- **Current that causes the specified temperature rise from 25°C
- DCR limits @ 20°C.
- Weight: 55-65mg.
- Core material: Ferrite.
- Operating temperature: -40°C to +85°C.
- Storage temperature: -40°C to +125°C.
- RoHS Compliant.
- 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(s) protection.