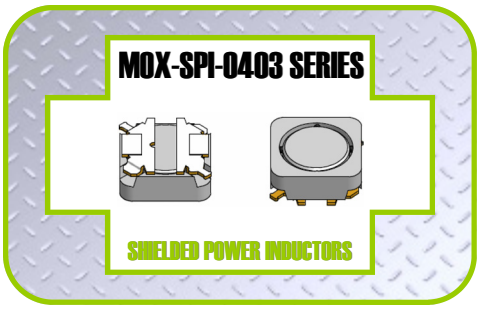
MOX-SPI-0403

MoxiE INDUCTOR CORPORATION

Surface Mount Shielded Power Inductors

MoxiE's SPI-0403 series of surface mount shielded are engineered for portable DC-DC converter lines & mobile phones. MoxiE offers an industry leading ultra low profile magnetically shielded package that offer high inductance & high power.

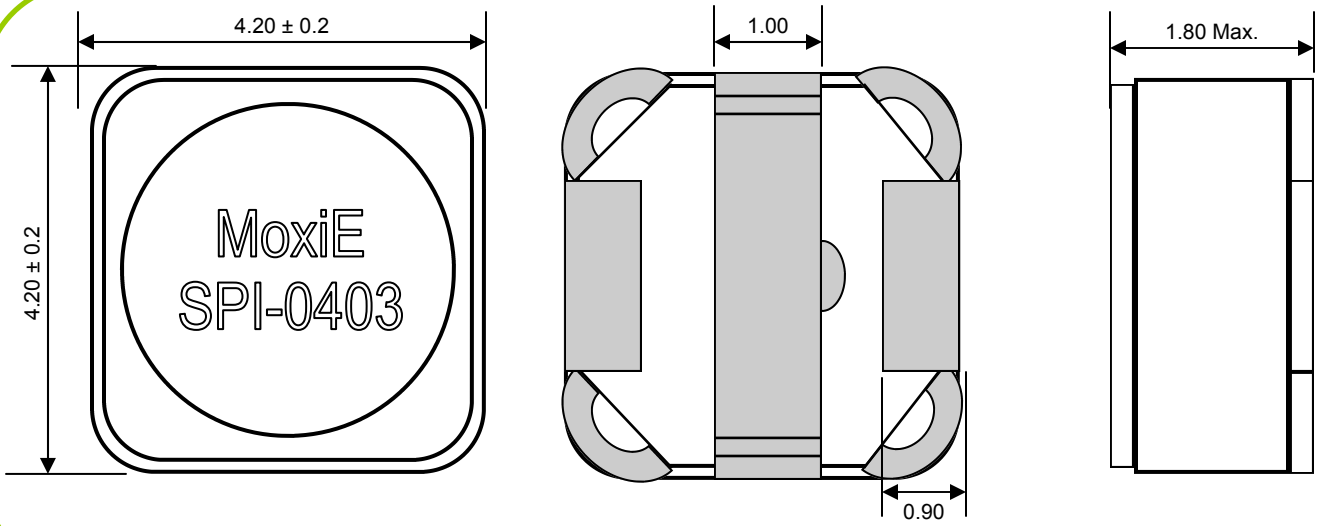


Features:

- Miniature size, Mounting area: 4.2 x 4.2 Height: 1.8mm max.
- Low Cost.
- Operating Temperature: -40°C to +105°C. (including self temperature rise)
- Available Tolerances: ±20% & ±30%.
- RoHS Compliant.
- Magnetically Shielded Applications.

NOTES

MECHANICAL DIMENSIONS



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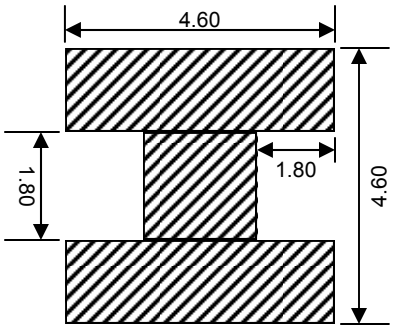
LANDING PATTERN



ELECTRICAL SPECIFICATIONS

MoxiE Part Number	Inductance (µH)	Tolerance (%)	DCR (mΩ) Maximum	DCR (mΩ) Typical	IDC1 (A)	IDC2 (A)
MOX-SPI-0403-1R2N	1.20	30% (N)	63	51	2.3	2.10
MOX-SPI-0403-1R5N	1.50	30% (N)	69	56	1.8	1.94
MOX-SPI-0403-2R2N	2.20	30% (N)	80	64	1.6	1.75
MOX-SPI-0403-3R3N	3.30	30% (N)	89	72	1.4	1.72
MOX-SPI-0403-3R9N	3.90	30% (N)	101	80	1.3	1.66
MOX-SPI-0403-4R7N	4.70	30% (N)	109	87	1.2	1.56
MOX-SPI-0403-5R6N	5.60	30% (N)	122	98	1.0	1.39
MOX-SPI-0403-6R8N	6.80	30% (N)	131	105	0.95	1.30
MOX-SPI-0403-8R2N	8.20	30% (N)	152	122	0.90	1.23
MOX-SPI-0403-100M	10.00	20% (M)	167	133	0.80	1.17
MOX-SPI-0403-120M	12.00	20% (M)	191	153	0.70	1.06
MOX-SPI-0403-150M	15.00	20% (M)	243	194	0.63	0.92
MOX-SPI-0403-180M	18.00	20% (M)	275	220	0.60	0.87
MOX-SPI-0403-220M	22.00	20% (M)	330	264	0.55	0.75
MOX-SPI-0403-270M	27.00	20% (M)	439	351	0.50	0.62
MOX-SPI-0403-330M	33.00	20% (M)	515	412	0.45	0.57

Rated Current:
IDC1: The value obtained DC current flows and the nominal value of inductance has fallen by 35%.
IDC2: The value obtained when current flows and the temperature has risen to 40°C.

MOX-SPI-0403 ENGINEERING NOTES

- Available Tolerances: N= ±30%, M= ±20%,
- RoHS compliant
- Packaging: Tape & Reel.
- MoxiE Inductor Corporation specifications are subject to change without notice.