



SMDMS SERIES

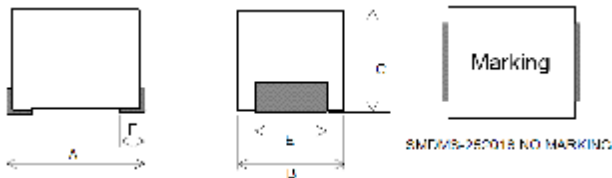
MAGNETIC SHIELDED WIRE WOUND SMD CHIP
INDUCTORS

Applications :

- TVs, VCRs and digital cameras.
- Xdsl and mobile base stations.
- Car audio and ECU systems.
- HDDs and ODDs.



Shape and Dimensions (Dimensions are in mm) :



Item	A	B	C	E	F	Item	H	I	J
252018	2.5±0.2	2.0±0.2	1.8±0.2	0.4Ref.	1.4±0.1	252018	1.5	1.0	1.5
322522	3.2±0.2	2.5±0.2	2.2±0.2	0.4Ref.	1.9±0.1	322522	2.0	1.2	2.0

Features :

- Magnetic shielded designed which is recommended for power supply line applications.
- The product has good heat durability that withstands Lead-free compatible reflow soldering conditions.
- Lead-free material is used for the plating on the terminal.
- This product conforms to the standards that are slated to be introduced under the ROHS Directive.

Characteristics :

- Rated Current : It is either the inductance is 10% lower is than its initial value in DC. saturation characteristics or temperature rise becomes $\Delta T=20^{\circ}\text{C}$ ($T_a=20^{\circ}\text{C}$) whichever lower.
- Operating temp: -40°C to 105°C .

Product Identification :

SMD MS - 252018 - 1R0 M
(1) (2) (3) (4) (5)

- (1) Type : Surface Mount Devices.
- (2) MS : Magnetic Shielded.
- (3) Dimension.
- (4) Inductance : 1R0 for 1.0uH.
- (5) Inductance tolerance : K:±10%; M:±20%.

Test equipments :

- L&Q: Agilent 4285A Precision LCR meter with Agilent 16034E test fixture.
- DCR: Milli-ohm meter.
- SRF: Agilent E4991A RF Impedance analyzer.
- Electrical specifications at 25°C .


I SMDMS-252018 series

Part No.	Inductance L (uH)	Tolerance (±%)	Q Ref.	Test freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) ±20%	Rated Current (mA) Max
SMDMS-252018-1R0□	1.0	20	5	7.96	100	0.07	455
SMDMS-252018-1R5□	1.5	20	5	7.96	80	0.09	350
SMDMS-252018-2R2□	2.2	20	5	7.96	70	0.10	315
SMDMS-252018-3R3□	3.3	20	5	7.96	55	0.20	280
SMDMS-252018-4R7□	4.7	20	5	7.96	45	0.24	210
SMDMS-252018-6R8□	6.8	20	5	7.96	38	0.29	175
SMDMS-252018-100□	10	10 ,20	10	2.52	32	0.36	155
SMDMS-252018-150□	15	10 ,20	10	2.52	28	0.75	130
SMDMS-252018-220□	22	10 ,20	10	2.52	16	1.00	105
SMDMS-252018-330□	33	10 ,20	10	2.52	14	1.40	85
SMDMS-252018-470□	47	10 ,20	10	2.52	11	1.70	60
SMDMS-252018-680□	68	10 ,20	10	2.52	10	3.30	50
SMDMS-252018-101□	100	10 ,20	10	0.796	8	4.00	40

I SMDMS-322522 series

Part No.	Inductance L (uH)	Tolerance (±%)	Q Ref.	Test freq. (MHz) L&Q	SRF (MHz) Min.	DCR (Ω) ±20%	Rated Current (mA) Max
SMDMS-322522-1R0□	1.0	20	5	7.96	100	0.06	750
SMDMS-322522-1R5□	1.5	20	5	7.96	80	0.07	600
SMDMS-322522-2R2□	2.2	20	5	7.96	68	0.09	500
SMDMS-322522-3R3□	3.3	20	5	7.96	54	0.11	420
SMDMS-322522-4R7□	4.7	20	5	7.96	46	0.13	360
SMDMS-322522-6R8□	6.8	20	5	7.96	38	0.17	260
SMDMS-322522-100□	10	10 ,20	10	2.52	30	0.20	250
SMDMS-322522-150□	15	10 ,20	10	2.52	26	0.30	140
SMDMS-322522-220□	22	10 ,20	10	2.52	21	0.40	120
SMDMS-322522-330□	33	10 ,20	10	2.52	17	0.65	95
SMDMS-322522-470□	47	10 ,20	10	2.52	14	0.85	90
SMDMS-322522-680□	68	10 ,20	10	2.52	12	1.30	70
SMDMS-322522-101□	100	10 ,20	25	0.796	10	2.20	55
SMDMS-322522-151□	150	10 ,20	25	0.796	8	2.90	50
SMDMS-322522-221□	220	10 ,20	25	0.796	7	5.10	40
SMDMS-322522-331□	330	10 ,20	25	0.796	5	6.80	35
SMDMS-322522-471□	470	10 ,20	25	0.796	4	14.5	30
SMDMS-322522-681□	680	10 ,20	25	0.796	3	18.5	25
SMDMS-322522-102□	1000	10 ,20	25	0.252	2.4	22.5	20

* Due to the limited space, the catalogue shows the typical specifications only. For more specific details (characteristics graph, reliability, and others), kindly invite you to access 3L official website www.3lcoil.com for better known.