

SHIELDED POWER INDUCTORS

MEC series: SP1009



- High current carrying capacity, low core losses.
- Controlled DCR tolerance for sensing circuits.
- Size: 11.3x10.4x9.7mm
- Inductance Range: 0.22uh – 10uh
- Saturation Current Range: 8.0A – 60.0A
- ROHS & REACH compliant, halogen and lead free.

Operating Temperature Range: -40°C to +125°C.

Reel Quantity: 400pcs

Applications: DC/AC converter and PDA/notebook/desktop/server

Part Number	Inductance (μH)	Isat (A) (Typ)	Irms (A) (Δt) 40°C (Typ)	DCR (mΩ) (Max)	Frequency (MHz)
SP1009-R22M	0.22 ± 20%	60.0	21.5	0.60	300
SP1009-R33M	0.33 ± 20%	55.0	21.5	0.60	250
SP1009-R47M	0.47 ± 20%	47.0	20.5	0.80	160
SP1009-R68M	0.68 ± 20%	38.0	20.0	1.35	140
SP1009-R82M	0.82 ± 20%	36.0	20.0	1.35	120
SP1009-1R0M	1.00 ± 20%	32.0	20.0	1.35	100
SP1009-1R5M	1.50 ± 20%	27.0	18.0	2.50	78
SP1009-2R2M	2.20 ± 20%	22.0	16.5	3.70	80
SP1009-3R3M	3.30 ± 20%	15.5	14.0	5.40	51
SP1009-4R7M	4.70 ± 20%	15.0	13.0	8.20	49
SP1009-6R8M	6.80 ± 20%	11.0	11.5	13.2	40
SP1009-8R2M	8.20 ± 20%	8.0	11.5	13.2	36
SP1009-100M	10.00 ± 20%	8.0	9.0	20.7	35

Test frequency at 100KHz/10ma

Isat: The DC current (A) that will cause L0 to drop approximately 25%

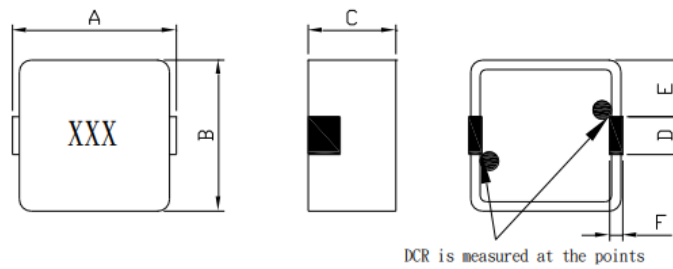
Irms: DC current (A) that will cause an approximate ΔT of 40°C

The part temperature (ambient + temperature rise) should not exceed 125°C under worst case operating conditions.

We can offer competitive lead times and prices compared to other EMI passive suppliers. If you are looking for an alternative component then please do not hesitate to contact one of our [global sales offices](#).

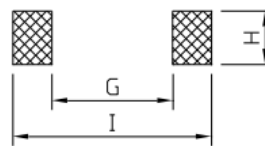
SHAPES AND DIMENSIONS :

UNIT : mm



A=10.9±0.4 B=10.0±0.4 C=9.3±0.4 D=3.0±0.2 E=3.5 typ. F=1.6±0.2

RECOMMENDED PATTERNS



G=6.9 H= 3.6 I= 11.3

PACKAGING SPECIFICATION

STAYLE	Q'TY (PCS)	DIMENSIONS (m/m)					
		Ao	Bo	Ko	P	Po	D±0.3
13"	400	10.4±0.1	11.3±0.1	10.2±0.1	20	4.0	24

ANNOTATION

All specifications shown herein are typical values and are not guaranteed. It is recommended to test in the application for suitability.