



High Current SMD Power Inductors - SER2013-A SERIES



AEC-Q₂₀₀

PART NUMBERING SYSTEM

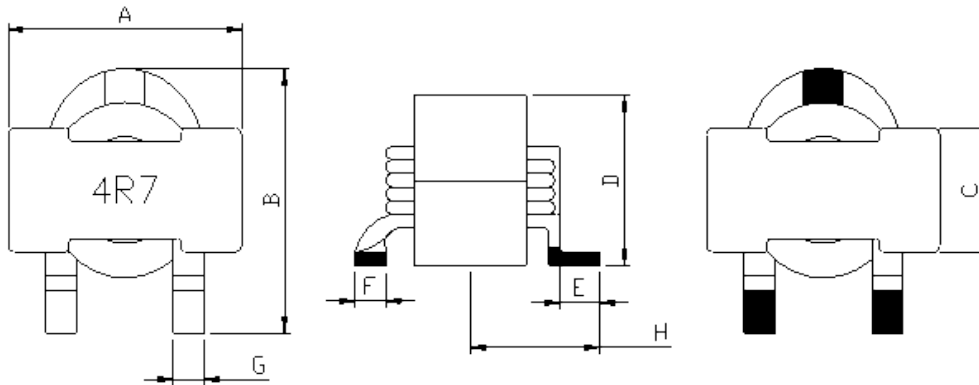
SER	2013	—	4R7M	—	LF	—	A
TYPE	DIMENSIONS		INDUCTANCE		LEAD FREE		Automotive

FEATURES :

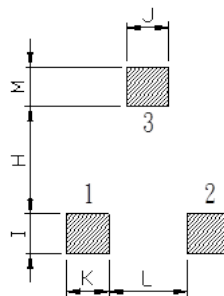
- Designed for high current, low voltage power supplies .
- Magnetic shielding structure, Excellent resistance to electromagnetic interference .
- Flat wire windings provide exceptionally low DC resistance , Halogen Free , 100% lead (Pb) Free and RoHS compliant .

SHAPES AND DIMENSIONS :

UNIT : mm



A=19.7 Max. B=19.6 Max. C=9.78 Max. D=12.9 Max. E=3.18±0.4
F =2.5 Ref. G=2.5±0.25 H=10.5±0.5



H =11.94 I=4.7 J=7.37 K=3.00 L=7.5 M=4.06



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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	DCR (m Ω) (Max.)	Isat (A) Drop 20%	Irms Rise 40 $^{\circ}$ C
SER2013-R68M-LF-A	0.68 \pm 20%	1.82	98	30.0
SER2013-R80M-LF-A	0.80 \pm 20%	1.82	85	30.0
SER2013-R90M-LF-A	0.90 \pm 10%	1.82	73	30.0
SER2013-1R0M-LF-A	1.00 \pm 10%	1.82	68	30.0
SER2013-1R2M-LF-A	1.20 \pm 10%	1.82	58	30.0
SER2013-1R5M-LF-A	1.50 \pm 10%	1.82	50	30.0
SER2013-1R8M-LF-A	1.80 \pm 10%	1.82	45	30.0
SER2013-2R0M-LF-A	2.00 \pm 10%	1.82	40	30.0
SER2013-3R0M-LF-A	3.00 \pm 20%	1.82	30	30.0
SER2013-3R6M-LF-A	3.60 \pm 20%	1.82	25	30.0
SER2013-4R0M-LF-A	4.00 \pm 20%	1.82	20	30.0
SER2013-4R7M-LF-A	4.70 \pm 20%	1.82	18	30.0
SER2013-5R0M-LF-A	5.00 \pm 20%	1.82	15	30.0

- Inductance measured at 100KHz,0.1Vrms,0A_{dc} on WK3260 or equivalent
- DC current at which the inductance drop 20% (typ.) from its value without current.
- Irms current that causes a 40 $^{\circ}$ C temperature rise from 25 $^{\circ}$ C ambient..
- Operating temperature range -40 $^{\circ}$ C to +125 $^{\circ}$ C , Electrical specifications at 25 $^{\circ}$ C.