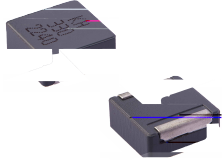


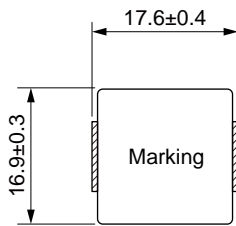
SMD Power Inductor Size 1870



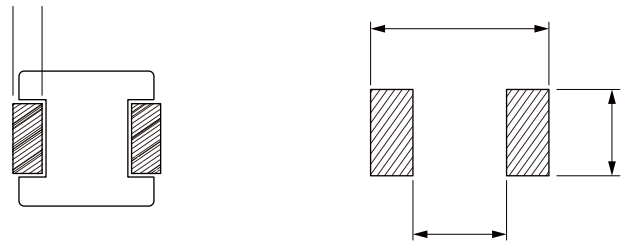
- Shielded construction.
- Capable of corresponding high frequency.
- Low loss realized with low DCR.
- High performance (Isat) realized by Carbonyl Powder.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Operating temperature: -55 to +125 °C(including self-temperature rise)
- Quantity: 300PCS

- Headlamps, tail lamps and interior lighting
-
- Doors, window lift and seat control
-
-
- In-Vehicle Infotainment and navigation

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

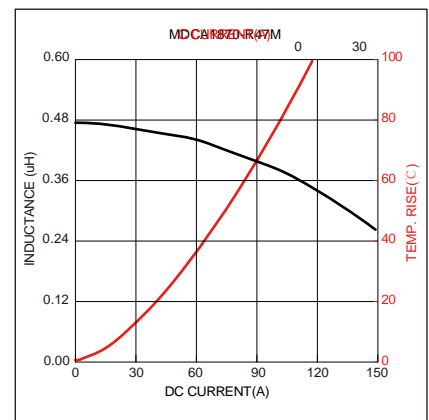
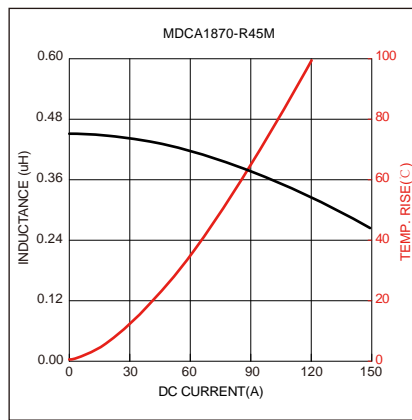
Part No	Inductance @ 100kHz/1V	Tolerance				Isat [A]
MPCA1870-R30M	0.33					0.40
MPCA1870-R45M	0.47				1.60	0.58
MPCA1870-R47M					0.98	1.03
MPCA1870-1R5M					1.60	3.00
MPCA1870-1R5M					2.00	2.50
MPCA1870-1R5M					2.40	2.70
				54	3.50	3.90
				60	4.80	5.50
			21.0	45	5.90	7.05
			19.0		8.40	9.70
			18.0		9.60	10.8
			16.5		11.8	13.0
			12.0		17.8	20.5
			10.0		26.1	26.8
	0.30		10.7		38.0	44.0

Part No	Inductance @ 100KHz/1V	Tolerance			DC Resistance Typ.	DC Resistance Max.
MDCA1870-470M	47.0		8.7		48.0	55.0
MDCA1870-560M	56.0		7.8	15	54.0	62.0
MDCA1870-680M	68.0		7.0		68.0	80.0
MDCA1870-820M	82.0		5.7		87.0	
MDCA1870-101M			5.3			118

Saturation Current will cause L to drop approximately 30%

Temperature Rise Current: The actual value of DC current when the temperature rise is $\Delta T=40^{\circ}\text{C}$

Typical Electrical Characteristics:



Typical Electrical Characteristics:

