

MDCA Series

SMD Power Inductor

Size 1040



FEATURES

- 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)

APPLICATION

- Headlamps, tail lamps and interior lighting

- Doors, window lift and seat control

- [?][?] [?][?] [?]

- [?][?] [?][?] [?]

- In-Vehicle Infotainment and navigation

Dimensions: [mm]	Temperature Rise Current Typ. (A)	Current Typ. (A)	DC Resistance Typ. (mΩ)	DC Resistance Max. (mΩ)	Land Pattern: [mm]
	42.0		0.60	0.70	
	34.0		0.90	1.10	
	30.0		1.10	1.30	
	30.0		1.15	1.30	
	27.0		1.40	1.60	
	24.4		1.70	1.90	
	21.5		2.50	2.82	
	17.4		3.12	3.48	
	15.5		4.15	4.80	

Electrical Properties:

Part No	Inductance @ 100KHz/1V (μH)	11.6		6.70	7.20
	10.5			11.0	12.0
MDCA1040-R15N	0.15	9.60		15.3	15.8
	0.22	8.70		17.3	19.8
	0.33	8.20		18.0	23.4
	0.36				
	0.47				
MDCA1040-R56M	0.56				
	0.68				
	1.00				
MDCA1040-1R5M	1.50				
	2.20				
	3.30				
	4.70				
MDCA1040-5R6M	5.60				
	6.80				

Part No	Inductance (μ H) @100KHz/1V	Tolerance	Temperature Rise Current Typ. (A)	Satura on Current Typ. (A)	DC Resistance Typ. (m Ω)	DC Resistance Max. (m Ω)
			7.80	12.2	20.8	23.8
			7.30	11.6	27.8	31.0
MDCA1040-150M			6.00	9.70	41.0	46.0
			4.80	6.80	65.0	75.0
			3.30	4.80	94.0	115
			2.90	4.30		169

