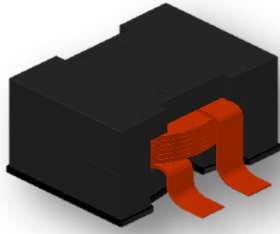


# CMI-CPQ1590-SERIES



## Picture



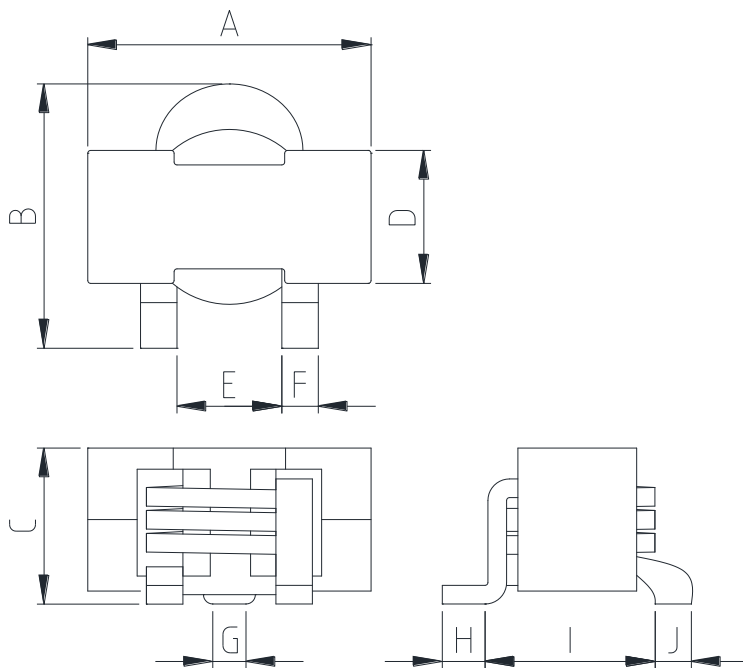
## Features

- ▶ Magnetically shielded
- ▶ High current and low profile.
- ▶ Flat wire wound
- ▶ Extra solder pad for increased mechanical stability
- ▶ RoHS compliant
- ▶ AEC-Q200 qualified.

## Applications

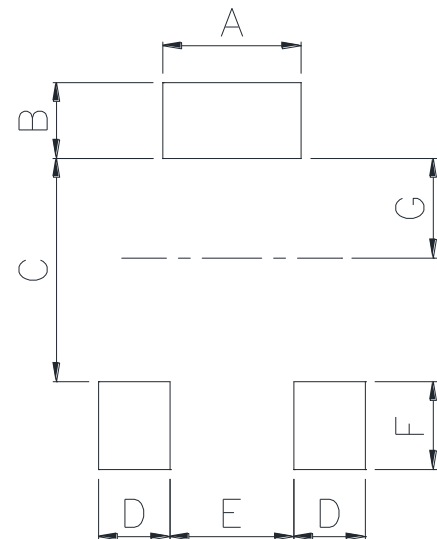
- ▶ Equipment using for automobiles (ECM, Airbags, Headlights, Electronic Power Steering, Motors, ABS, other)

## Dimension (Unit:mm)



A	B	C	D	E
15.75 Max	16.26 Max	10.16 Max	6.60±0.15	5.84 ref.
F	G	H	I	J
2.54 ref.	2.29 ref.	2.03 ref.	11.43 ref.	2.54 ref.

## Land Pattern (Unit:mm)



A	B	C	D
6.35	3.81	8.89	3.81
E	F	G	
4.57	4.06	3.81	

- You can also contact us by e-mail : [coilmaster@coilmaster.com](mailto:coilmaster@coilmaster.com)
- All specifications are subject to change without notice.
- Update date : 2018.04.30

## Specifications

Part No.	Inductance ( $\mu$ H) $\pm 20\%$	DCR (m $\Omega$ ) Max.(Typ.)	Isat (A)			Itemp (A)	SRF (MHz) Typ.
			10% drop	20% drop	30% drop		
CMI-CPQ1590-R30M	0.30	0.72(0.66)	53	56	57	32	260
CMI-CPQ1590-R50M	0.50	0.94(0.87)	39	42	44	27	2022
CMI-CPQ1590-R60M	0.60	0.94(0.87)	33	35	36	27	182
CMI-CPQ1590-R68M	0.68	0.94(0.87)	30	32	33	27	160
CMI-CPQ1590-R80M	0.80	0.94(0.87)	25	26	27	27	123
CMI-CPQ1590-R90M	0.90	1.15(1.08)	27	28	29	22	160
CMI-CPQ1590-1R0M	1.0	0.94(0.87)	20	22	23	27	115
CMI-CPQ1590-1R2M	1.2	1.15(1.08)	20	22	23	22	90
CMI-CPQ1590-1R5M	1.5	1.15(1.08)	17	18	19	22	73

- Inductance measured at 100kHz, 0.1Vrms
- Isat1 : DC current at 25°C that causes the specified inductance drop from its value without current.  
When Isat rating is less than Itemp, Isat is the more critical specification.
- Itemp : Current that causes a 40°C temperature rise from 25°C ambient. This information is for reference only and does not represent absolute maximum ratings.
- Ambient temperature -40°C to +85°C with (40°C rise) Itemp current.
- Maximum part temperature +125°C (ambient + temp rise). Derating.
- Storage temperature Component: -40°C to +125°C.

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