



High Current Power Inductors - CMMPF5030QL



PART NUMBERING SYSTEM

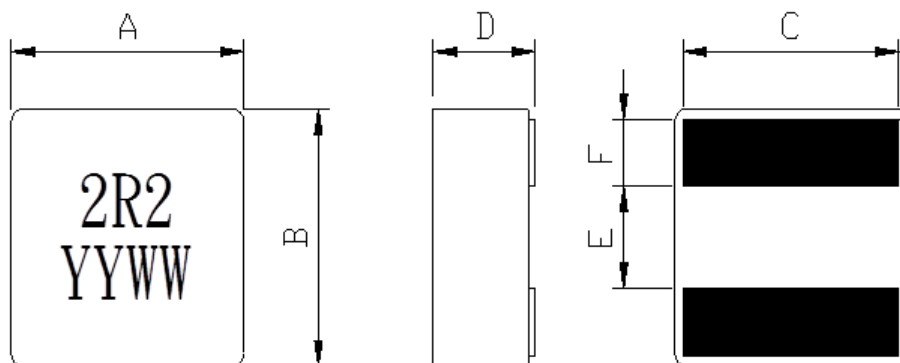
CM	MPF	5030QL	—	R33M	—	SB
PCODE	TYPE	DIMENSIONS		INDUCTANCE		MATERIAL

FEATURES :

- Low profile (3.1mm max. height) and 5.5 mm max. square.
- Excellent current handling – up to 40 A; Exceptionally low DCR – only 2.31 mOhms
- Inductance rage: 0.13 μ H – 4.7 μ H
- Magnetically shielded and low DC resistance and Suitable for large current.
- Excellent temperature stability for inductance and saturation.

SHAPES AND DIMENSIONS :

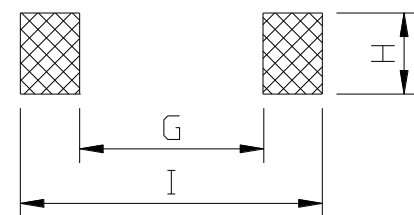
UNIT : mm



A=5.5 $\pm$ 0.3 B=5.3 $\pm$ 0.3 C=4.3 $\pm$ 0.3 D=2.9 $\pm$ 0.2 E=2.2 Typ F= 1.1 $\pm$ 0.3

RECOMMENDED PATTERNS

UNIT : mm



H=4.7 G= 2.0 I = 4.5

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SPECIFICATION TABLE

PART NUMBER	INDUCTANCE (μ H)	Isat (A) Typ.	Irms (A)Typ. 40°C(Rise)	DCR (m Ω) (Typ.)	DCR (m Ω) (Max.)
CMMPF5030QL-R13M-SB	0.13 $\pm$ 20%	40.0	23.0	2.10	2.31
CMMPF5030QL-R15M-SB	0.15 $\pm$ 20%	36.0	22.2	2.10	2.31
CMMPF5030QL-R33M-SB	0.33 $\pm$ 20%	32.0	15.5	2.90	3.50
CMMPF5030QL-R47M-SB	0.47 $\pm$ 20%	26.0	13.7	3.7	4.4
CMMPF5030QL-R68M-SB	0.68 $\pm$ 20%	20.0	13.0	5.0	6.5
CMMPF5030QL-4R7M-SB	4.70 $\pm$ 20%	8.2	5.9	33.0	36.3

- I sat : DC current at which the inductance drops 30% (Typ.) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Test Frequency at 1MHz / 0.1V
- Rated operating voltage(across inductor) 40V ref.
- The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions. Circuit design, component, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.
- I rms Testing : Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions.
- Operating temperature range -40°C to +125°C , Electrical specifications at 25°C.