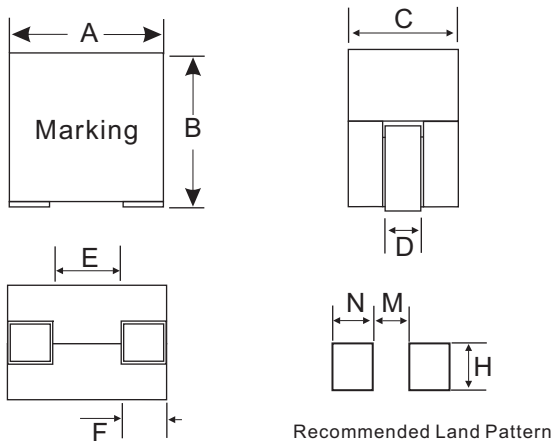
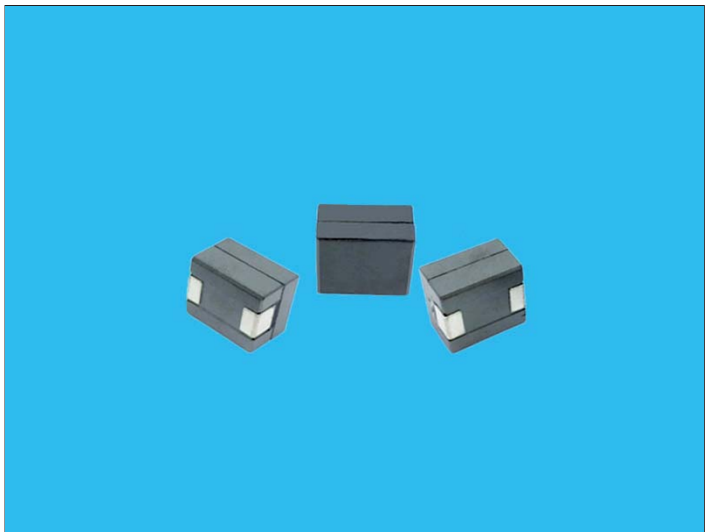


SMD High Current Power Beads



Dimensions and Footprint (Unit:mm)									
Type	A	B	C	D	E	F	N	M	H
CPBS10070	10.0 Max.	10.0 Max.	7.0 Max.	2.4±0.25	4.2±0.25	2.5±0.25	3.3 Ref.	4.4 Ref.	3.0 Ref.
CPBS10070A	10.0 Max.	10.0 Max.	7.0 Max.	2.5 Type	4.2±0.25	2.5 Type	3.0 Ref.	4.4 Ref.	3.0 Ref.
CPBS10070B	10.0 Max.	10.0 Max.	7.0 Max.	2.4±0.2	5.0 Ref	2.5±0.3	3.2 Ref.	3.9 Ref.	3.3 Ref.
CPBS10070C	10.0 Max.	10.0 Max.	7.0 Max.	2.4±0.2	4.2±0.25	2.5±0.3	3.3 Ref.	4.4 Ref.	3.0 Ref.

Description

- Superior quality for an automated production line.
- Magnetically shielded.
- Flat wire windings provide exceptionally low DC resistance.
- Frequency range: up to 2MHz.
- AEC-Q200 compliance.

Part Number Code

CPBS10070-R08M

Inductance

Dimensions

Series Name

Electrical Specifications-CPBS10070					
Part Number	Inductance(nH) (±15%)	DCR (mΩ) (±10%)	Inductance(nH) @IDC(Typ.)	Irms(Max) (A)	Isat(Max) (A)
CPBS10070-R08L	80	0.185	80.0	68.0	120.0
CPBS10070-R10L	100	0.185	100.0	68.0	100.0
CPBS10070-R12L	120	0.185	120.0	68.0	94.0
CPBS10070-R15L	150	0.185	150.0	68.0	80.0
CPBS10070-R22L	220	0.185	210.0	68.0	55.0

Electrical Specifications-CPBS10070

Part Number	Inductance(nH) (±15%)	DCR (mΩ) (±10%)	Inductance(nH) @IDC(Typ.)	Irms(Max) (A)	Isat(Max) (A)
CPBS10070-R33L	330	0.185	310.0	68.0	35.0

- The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.
- Inductance Tested at 100KHz, 0.1Vrms.
- Δ t=40°C.

Electrical Specifications-CPBS10070A

Part Number	Inductance(nH) (±20%)	DCR (mΩ) (±10%)	Inductance(nH) @IDC(±20%)	Irms(Max) (A)	Isat(Max) (A)
CPBS10070A-R07M	70	0.145	63.0	68.0	124.0
CPBS10070A-R08M	80	0.145	72.0	68.0	118.0
CPBS10070A-R10M	100	0.145	90.0	68.0	95.0
CPBS10070A-R12M	120	0.145	108.0	68.0	78.0
CPBS10070A-R15M	150	0.145	135.0	68.0	60.0
CPBS10070A-R22M	220	0.145	198.0	68.0	38.0
CPBS10070A-R33M	330	0.145	297.0	68.0	20.0

- The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.
- Inductance Tested at 100KHz, 0.1Vrms.
- Δ t=40°C.

Electrical Specifications-CPBS10070B

Part Number	Inductance(nH) (±15%)	DCR (mΩ) (±10%)	Inductance(nH) @Isat(±20%)	Irms(Max) (A)	Isat(Max) (A)
CPBS10070B-R22L	220	0.4	154	65	44
CPBS10070B-R33L	330	0.4	231	35	44
CPBS10070B-R47L	470	0.4	329	30	44

- The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.
- Inductance Tested at 100KHz, 0.1Vrms.
- Δ t=40°C.

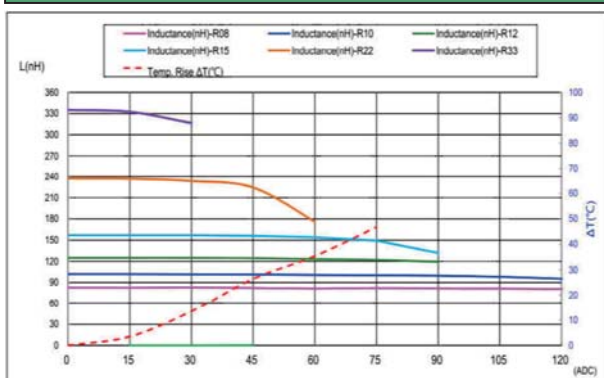
Electrical Specifications-CPBS10070C

Part Number	Inductance(nH) (±10%)	DCR (mΩ) (±7%)	Inductance(nH) @IDC(Typ.)	Irms(Max) (A)	Isat(Max) (A)
CPBS10070C-R08K	80	0.220	80.0	63.0	120.0
CPBS10070C-R10K	100	0.220	100.0	63.0	100.0

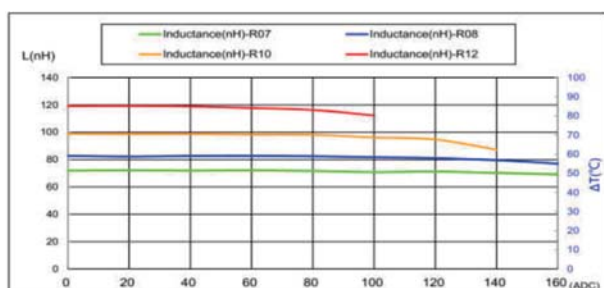
Electrical Specifications-CPBS10070C

Part Number	Inductance(nH) ($\pm 10\%$)	DCR (m Ω) ($\pm 7\%$)	Inductance(nH) @IDCTyp.)	Irms(Max) (A)	Isat(Max) (A)
CPBS10070C-R12K	120	0.220	120.0	63.0	95.0
CPBS10070C-R15K	150	0.220	150.0	63.0	80.0
CPBS10070C-R22K	220	0.220	210.0	50.0	70.0
CPBS10070C-R33K	330	0.220	310.0	32.0	45.0

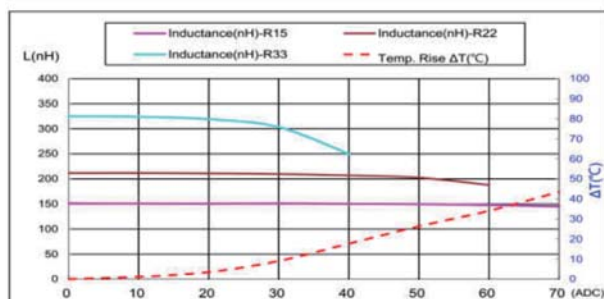
- The saturation current indicates the value of DC current is approximately 20% lower than its initial value of inductance.
- Inductance Tested at 100KHz, 0.1Vrms.
- $\Delta t = 40^\circ\text{C}$.

Inductance/Temperature Rise VS DC BIAS


CPBS10070



CPBS10070A



CPBS10070A

Inductance/Temperature Rise VS DC BIAS

CPBS10070B

