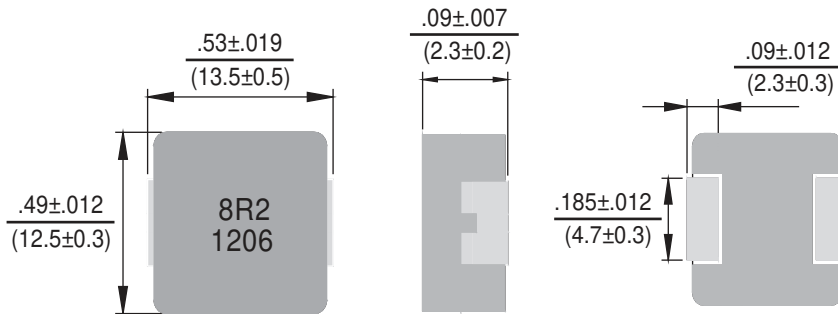




## Power Choke High Current

## PCHC123HP

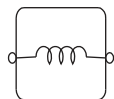
Dimensions:  $\frac{\text{Inches}}{\text{(mm)}}$



Allied Part Number	Inductance (±th)	Tolerance (%)	Test Freq. KHz, 1v	DCR (mΩ) Typ.(Max)	Isat (A) Typ.	Irms (A) Typ.
PCHC123HP-R10T-RC	0.10	30	100	0.36(0.43)	84	43
PCHC123HP-R15T-RC	0.15	30	100	0.4(0.48)	75	41
PCHC123HP-R22M-RC	0.22	20	100	0.7(0.81)	65	38.5
PCHC123HP-R33M-RC	0.33	20	100	0.85(1.0)	62	36.5
PCHC123HP-R36M-RC	0.36	20	100	0.87(1.1)	60	36
PCHC123HP-R45M-RC	0.45	20	100	1.05(1.5)	58	33
PCHC123HP-R47M-RC	0.47	20	100	1.2(1.8)	55	32
PCHC123HP-R56M-RC	0.56	20	100	1.3(1.9)	53	30
PCHC123HP-R60M-RC	0.60	20	100	1.5(2.2)	51	29
PCHC123HP-R67M-RC	0.67	20	100	1.9(2.5)	49	28
PCHC123HP-R68M-RC	0.68	20	100	1.9(2.5)	49	28
PCHC123HP-R82M-RC	0.82	20	100	2.2(3.0)	44	25
PCHC123HP-1R0M-RC	1.00	20	100	2.7(3.5)	40	24
PCHC123HP-1R2M-RC	1.20	20	100	4.0(5.0)	37	21
PCHC123HP-1R5M-RC	1.50	20	100	4.8(5.5)	35	19
PCHC123HP-1R8M-RC	1.80	20	100	5.2(7.0)	30	17
PCHC123HP-2R2M-RC	2.20	20	100	6.3(8.0)	29	16
PCHC123HP-3R3M-RC	3.30	20	100	11(13.5)	27	12
PCHC123HP-4R7M-RC	4.70	20	100	15.3(18.5)	24	10
PCHC123HP-5R6M-RC	5.60	20	100	18(22)	19	9.5
PCHC123HP-6R8M-RC	6.80	20	100	20(24)	18	9
PCHC123HP-8R2M-RC	8.20	20	100	23(28)	16	8.5
PCHC123HP-100M-RC	10.0	20	100	29(34)	14	7
PCHC123HP-330M-RC	33.0	20	100	132(160)	6.0	3.5

All specifications subject to change without notice.

#### Schematic



#### Features

- Magnetically shielded construction
- High saturation current up to 84A
- Expanded operating temp range
- Low DCR
- Suitable for pick and place

#### Electrical

**Inductance Range:** .10μH to 33μH

Additional values available

**Tolerance:** As noted.

Available in tighter tolerances.

**Test Frequency:** 100KHz, 1V

**Operating Temp:** -40°C ~ +125°C

**Irms:** Current at which ΔT=40°C temp rise with out core loss.

**Isat:** Current at which Inductance drop is approximately 20%.

#### Resistance to Soldering Heat

Pre-Heat 150°C, 1 minute.

**Solder Composition:** Sn/Ag3.0/Cu0.5

**Solder Temp:** 260°C ± 5°C

**Immersion Time:** 10 sec. ± 1 sec.

#### Test Equipment

(L): HP4284A LCR meter or equivalent

**DCR:** CH16502, Agilent 33420A Micro-Ohm meter

**IDC:** 3260B WK & DC Bias 3265B WK

#### Physical

**Packaging:** 500 pieces per 13 inch reel.

**Marking:** EIA Inductance Code/ Date Code