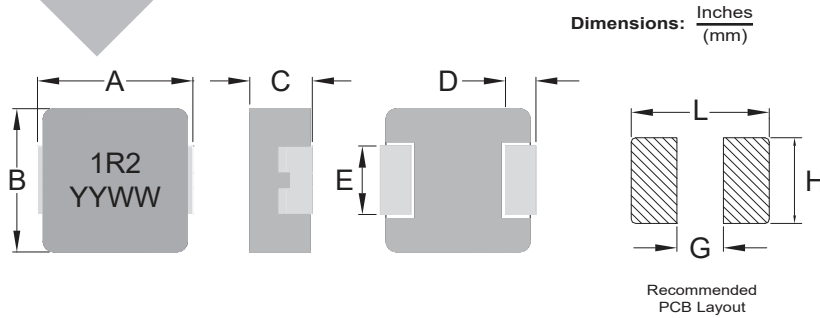




Power Choke High Current

PCHC0605H



A	B	C	D	E
.287±.012 (7.3±0.3)	.260±.012 (6.6±0.3)	.189±.008 (4.8±0.2)	.071±.012 (1.8±0.3)	.118±.012 (3.0±0.3)

L	G	H
.331 (8.4)	.100 (2.5)	.140 (3.5)

Allied Part Number	Inductance (μH) ±20% @ 0A	DCR (mΩ) Typ. @25°C	DCR (mΩ) Max @25°C	I _{rms} (A) Typ.	I _{sat} (A) Typ.
PCHC0605H-R47M-RC	0.47	3.5	3.9	22.0	30.0
PCHC0605H-R56M-RC	0.56	3.6	4.2	20.0	27.0
PCHC0605H-R68M-RC	0.68	4.0	4.5	18.0	24.0
PCHC0605H-R82M-RC	0.82	4.6	4.9	16.5	22.0
PCHC0605H-1R0M-RC	1.00	6.1	6.5	15.0	20.0
PCHC0605H-1R2M-RC	1.20	6.7	7.5	14.0	18.0
PCHC0605H-1R5M-RC	1.50	8.6	9.0	12.0	16.5
PCHC0605H-2R2M-RC	2.20	11.2	12.0	10.0	14.0
PCHC0605H-3R3M-RC	3.30	19.0	20.9	8.0	12.0
PCHC0605H-4R7M-RC	4.70	28.0	30.8	6.5	10.0
PCHC0605H-5R6M-RC	5.60	43.5	49.0	6.0	9.0
PCHC0605H-6R8M-RC	6.80	46.0	51.5	5.5	8.5
PCHC0605H-8R2M-RC	8.20	56.0	63.0	5.0	8.0
PCHC0605H-100M-RC	10.0	60.0	69.0	4.0	7.5

All specifications subject to change without notice.

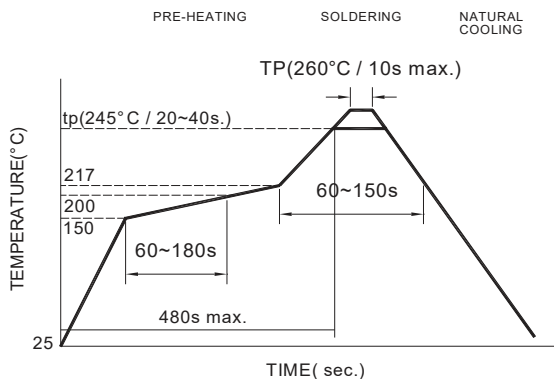
Features

- Carbonyl Powder
- Low DCR
- Very Low Acoustic Noise & Leakage flux
- Compact Design
- MSL Level 1
- Lead Free and RoHS Compliant

Electrical

Inductance: 0.47μH - 10.0μH
Tolerance: ±20%
Test Frequency: 100KHz, 1.0V
Operating Temp: -40°C to +125°C
I_{rms}: Current at which Δ T=40°C temp rise without core loss.
I_{sat}: Current at which Inductance drop is approximately 30%. The part temperature (ambient + temp rise) should not exceed 125°C under worst case operating conditions

Reflow Soldering



Solderability

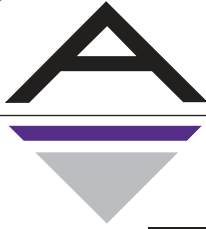
Pre-Heat: 150°C, 60 Sec
Solder Composition: Sn96.5%/Ag3%/Cu0.5%
Solder Temp: 245°C ±5°C
Flux for lead free: Rosin 9.5%
Immersion Time: 4 ±1 Sec
Depth: Completely cover terminations

Test Equipment

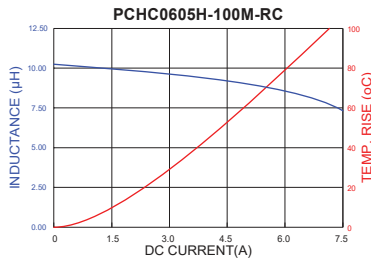
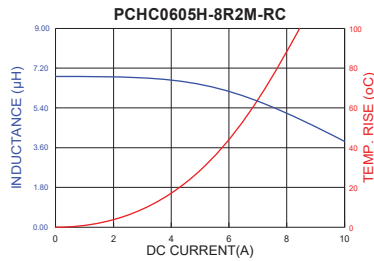
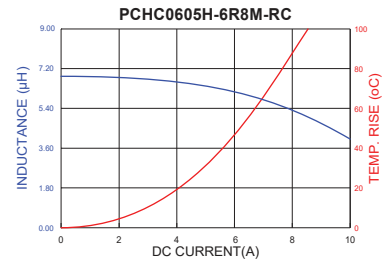
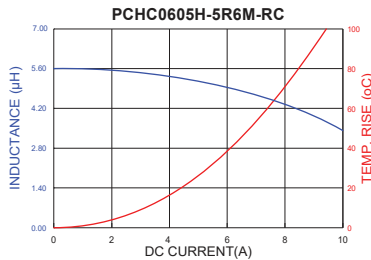
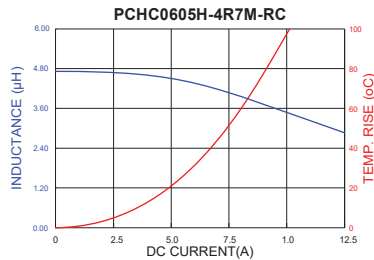
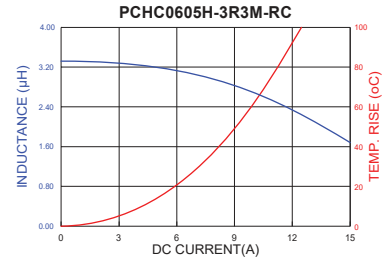
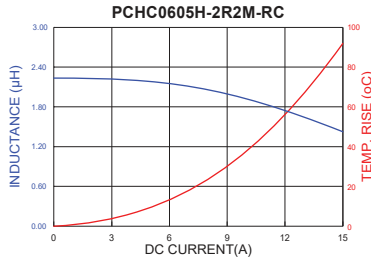
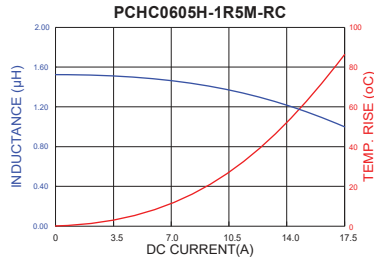
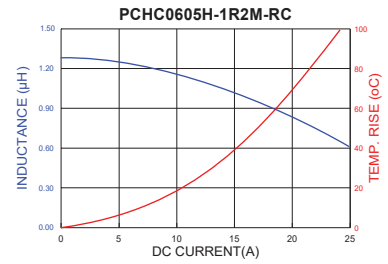
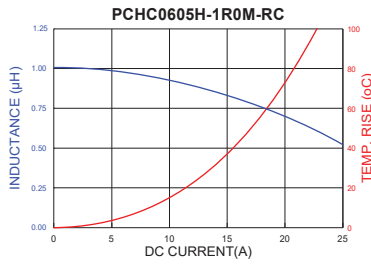
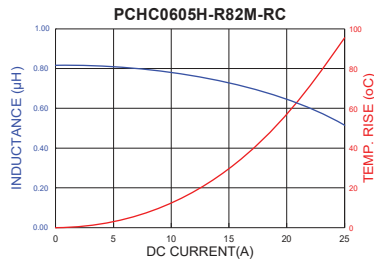
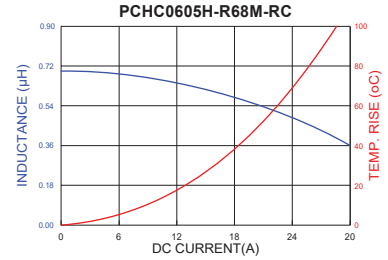
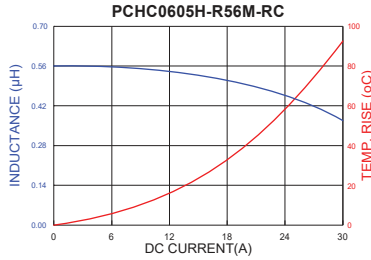
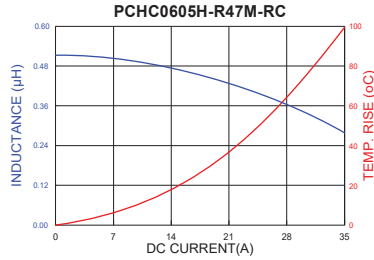
(L): HP4284A, CH11025, CH3302, CH1320, CH1320S LCR meter or equivalent
DCR: CH16502, Agilent 33420A Mirco-Ohmmeter

Physical

Packaging: 800 pieces per 13 inch reel
Marking: EIA Inductance Code/ Date Code



Typical Performance Curves

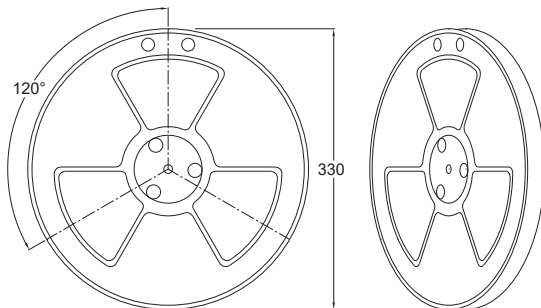




Packaging Information

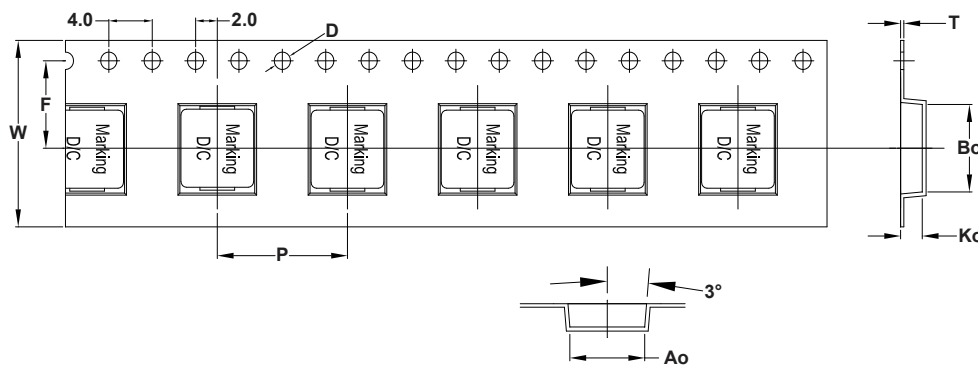
Dimensions: mm

Reel Dimension



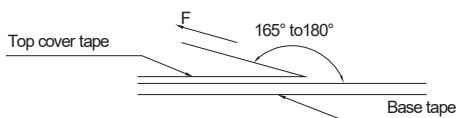
Type	A(mm)	B(mm)	C(mm)	D(mm)
330x16mm	16.4+2/-0	80±2.0	13+0.5/-0.2	330

Tape Dimension



Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	W(mm)	F(mm)	t(mm)	D(mm)
7.7±0.1	7.0±0.1	5.3±0.1	12.0±0.1	16±0.3	7.5±0.1	0.35±0.05	1.5±0.1

Tearing Off Force



The force for tearing off cover tape is 10 to 130 grams in the arrow direction under the following conditions. (Referenced ANSI/EIA-481-C-2003 of 4.11 standard)

Room Temp. (°C)	Room Humidity (%)	Room atm (hPa)	Tearing Speed mm/min
5~35	45~85	860~1060	300

Application Notice

• Storage Conditions

- To maintain the solderability of terminal electrodes:
- 1. PCHC0605H Series meets IPC/JEDEC J-STD-020D standard-MSL, level 1.
- 2. Temperature and humidity conditions: Less than 40°C and 60% RH.
- 3. Recommended products should be used within 12 months from the time of delivery.
- 4. The packaging material should be kept where no chlorine or sulfur exists in the air.

• Transportation

- 1. Products should be handled with care to avoid damage or contamination from perspiration and skin oils.
- 2. The use of tweezers or vacuum pick up is strongly recommended for individual components.
- 3. Bulk handling should ensure that abrasion and mechanical shock are minimized.