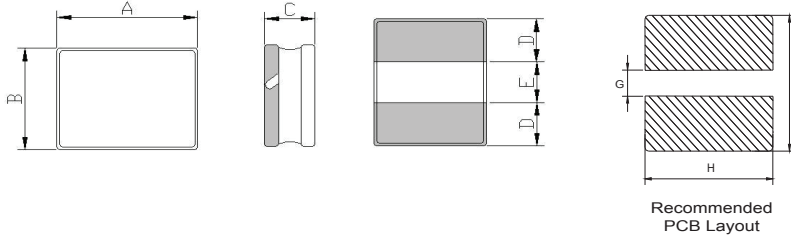




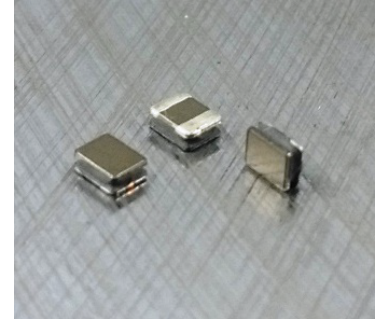
SMD Shielded Power Inductor PAHP24

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



A	B	C	D	E
.098 \pm .004/+0.008 (2.5 -0.1/+0.2)	.079 \pm .004/+0.008 (2.0 -0.1/+0.2)	.039 Max (1.0)	.030 Ref (0.75)	.039 Ref (1.0)

L	G	H
.114 (2.9)	.039 (1.0)	.095 (2.4)



Features

- Low Profile
- Magnetically Shielded Construction for power circuits using metallic magnetic material
- Compatible with high-density mounting
- RoHS Compliant and Halogen Free

Electrical

Inductance Range: .24 μ H to 4.7 μ H

Tolerance: 20% over entire range

Test Frequency: 1MHz

Operating Temp: -40°C to +125°C

MSL: Level 1

Isat: The Current at which the Inductance will drop by 30% typically.

Irms: The Current at which the Coil temperature will rise by approximately 40°C without core loss.

Resistance to Soldering Heat

Pre-heating: 150°C, 1min

Solder: Sn96.5% Ag3% Cu0.5%

Temperature: 245 \pm 5°C

Flux for lead free: Rosin. 9.5%

Dip time: 4 \pm 1sec

Depth: completely cover the termination

Test Equipment

Inductance: HP4284A, CH11025, CH3302,

CH1320, CH1320S LCR Meter

DCR: CH16502 ,Agilent 33420A

Micro-Ohm Meter

Physical

Packaging: 2000 pieces per 7 inch reel.

Allied Part Number	Inductance (μ H) 1MHz, 1.0V \pm 20%	DCR (Ω) Typ.	DCR (Ω) Max.	I sat (A) Typ.	I sat (A) Max.	I rms (A) Typ.	I rms (A) Max.
PAHP24-R24M	0.24	.018	.022	9.50	8.00	5.50* 6.00**	5.00* 5.50**
PAHP24-R33M	0.33	.023	.028	8.00	6.50	5.30* 5.60**	4.80* 5.10**
PAHP24-R47M	0.47	.027	.035	7.00	5.90	4.60* 5.30**	4.20* 4.80**
PAHP24-R68M	0.68	.032	.040	5.50	4.60	4.20* 4.40**	3.80* 4.00**
PAHP24-1R0M	1.0	.044	.053	4.90	4.30	3.50* 3.70**	3.10* 3.40**
PAHP24-1R5M	1.5	.062	.074	3.80	3.10	3.20* 3.40**	2.80* 3.00**
PAHP24-2R2M	2.2	.078	.093	2.80	2.30	2.60* 2.80**	2.30* 2.50**
PAHP24-4R7M	4.7	.180	.216	1.70	1.40	1.70* 1.80**	1.50* 1.60**

All specifications subject to change without notice.

Test Measurement PCB Data:

*Irms

Material : FR4

Board Dimensions : 100 x 50 x 1.6t mm

Pattern dimensions : 45 x 30 mm (Double sided board)

Pattern thickness : 50 μ m

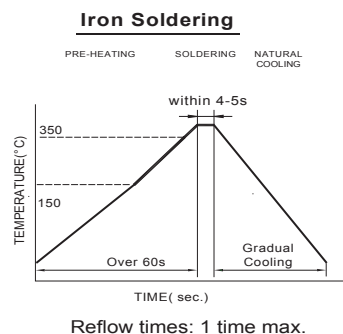
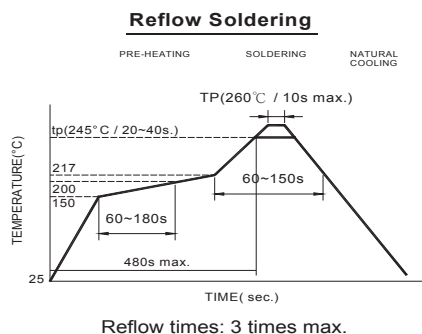
**Irms

Material : FR4

Board Dimensions : 100 x 50 x 1.6t mm

Pattern dimensions : 45 x 45 mm (Double sided board)

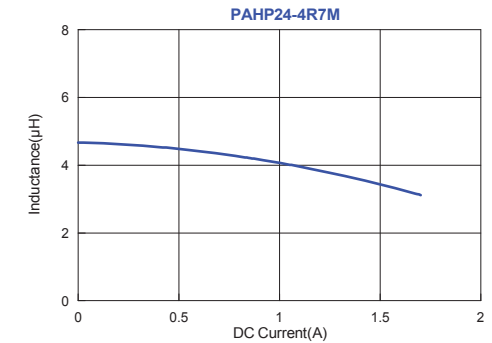
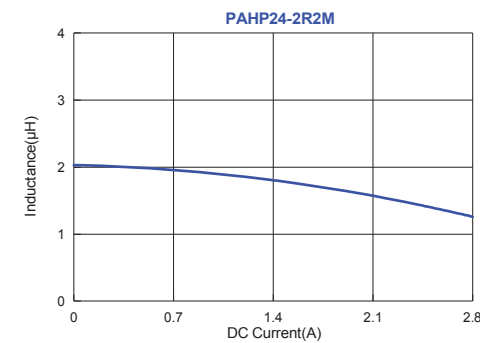
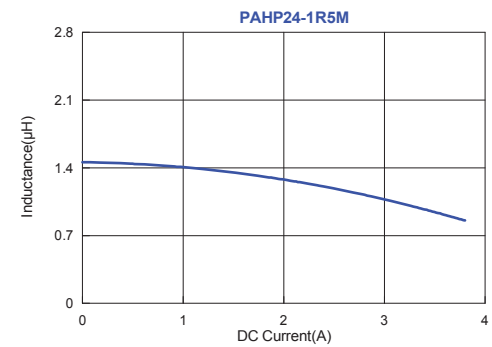
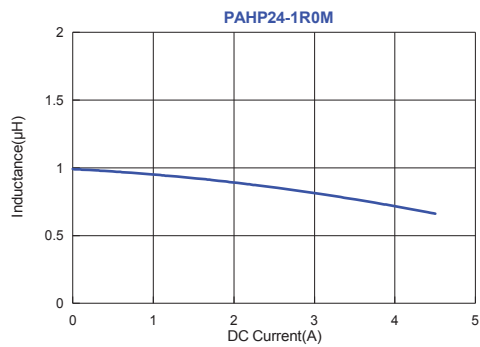
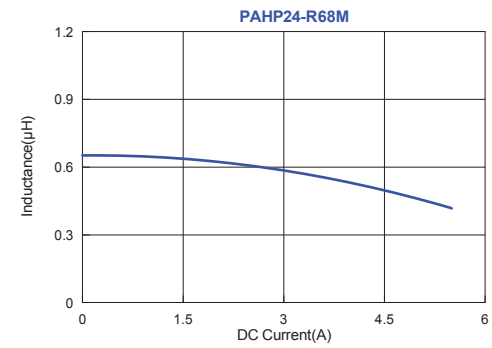
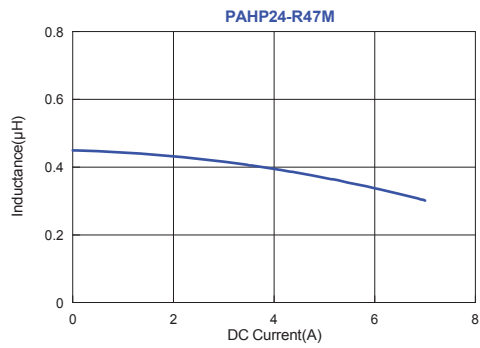
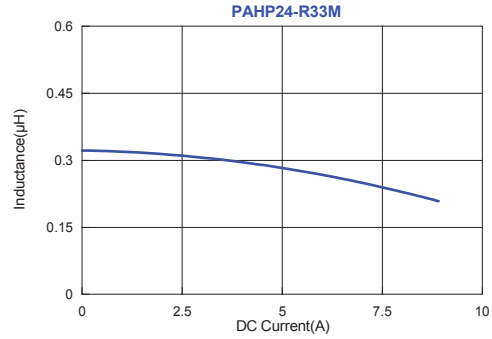
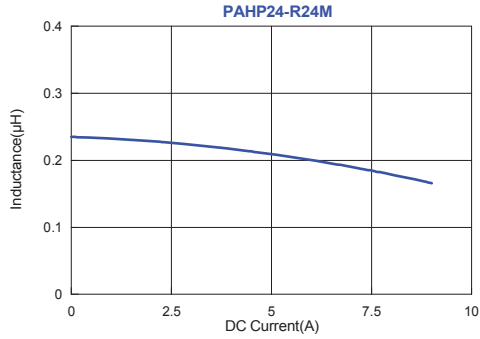
Pattern thickness : 70 μ m





SMD Shielded Power Inductor PAHP24

Typical Performance Curves

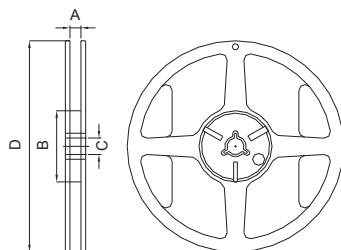




SMD Shielded Power Inductor PAHP24

Packaging Information

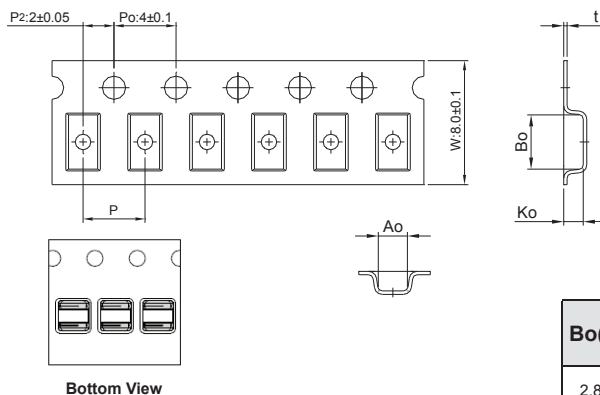
Reel Dimension



178x8mm

Type	A(mm)	B(mm)	C(mm)	D(mm)
178x12mm	8.4±1.0	50 Min	13±0.8	178±2.0

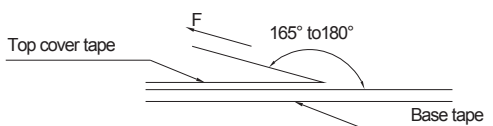
Tape Dimension



Bottom View

Bo(mm)	Ao(mm)	Ko(mm)	P(mm)	t(mm)
2.85±0.1	2.45±0.1	1.4±0.1	4.0±0.1	.23±.05

Tearing Off Force



The force for tearing off cover tape is 15 to 80 grams in the arrow direction under the following conditions.

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. PAHP24 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.