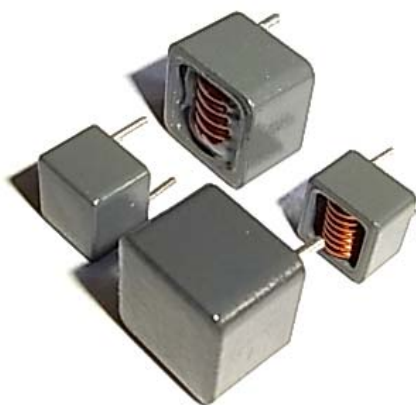


## Shielded Construction - DIP / APL-PQ Series



### Feature

1. Ultra low cost.
2. Shielded construction.
3. High current rating up to DC 38 Amp.
4. High frequency range up to 1.0 MHz.
5. Sendust powder core used.
6. All lead-free. (RoHS)

### Application

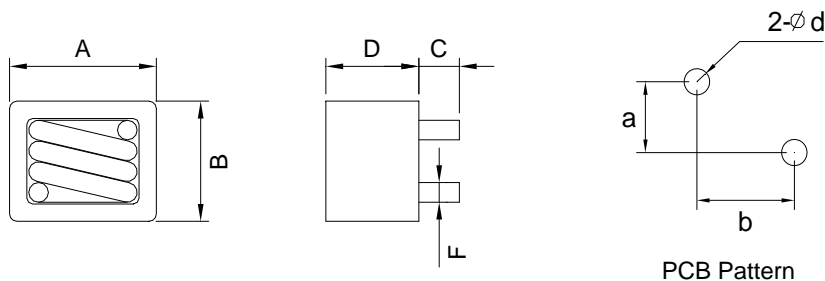
1. Motherboards for laptop and desktop computers.
2. DC/DC converter in distributed power systems or VRM applications.
3. Inductor for general purpose use.

### Product Identification

**APL 1310 PQ - 1R0 M**  
**1 2 3 4 5**

1. Series Name.
2. Dimension.
3. Core material.
4. Inductance. ( See Details )
5. Tolerance. ( See Details )

### Configurations & Dimensions



Unit: mm

Series Name	A	B	C	D
APL1310PQ	13.5 Max.	12.5 Max.	3.5±0.5	10.0 Max.
APL1108PQ	11.7 Max.	11.7 Max.	3.5±0.5	8.5 Max.
APL1108PQ-C	11.7 Max.	11.7 Max.	3.5±0.5	9.5 Max.
APL0806PQ	8.2 Max.	8.2 Max.	3.5±0.5	6.0 Max.
APL0806PQ-C	8.2 Max.	8.2 Max.	3.5±0.5	7.0 Max.

※ Please contact with our sales department for detail dimension and recommend PCB layout.

## Electrical Characteristics / APL1310PQ

Part Number	Inductance ( $\mu$ H)	Test Condition (Hz / Volt)	DCR(m $\Omega$ ) @25°C ± 8%	Saturation Current ( A )	Temperature Rise Current ( A )
APL1310PQ-R75M	0.75	100K / 1.0	0.75	40.0	38.0
APL1310PQ-1R2M	1.20	100K / 1.0	1.15	28.0	31.0
APL1310PQ-1R7M	1.70	100K / 1.0	1.85	24.0	24.0
APL1310PQ-2R2M	2.20	100K / 1.0	3.00	18.5	19.0
APL1310PQ-3R0M	3.00	100K / 1.0	4.00	18.0	16.0
APL1310PQ-4R0M	4.00	100K / 1.0	5.40	17.0	14.0
APL1310PQ-5R0M	5.00	100K / 1.0	7.60	15.0	11.5
APL1310PQ-6R0M	6.00	100K / 1.0	10.50	14.0	10.0

## Electrical Characteristics / APL1108PQ

Part Number	Inductance ( $\mu$ H)	Test Condition (Hz / Volt)	DCR(m $\Omega$ ) @25°C ± 8%	Saturation Current ( A )	Temperature Rise Current ( A )
APL1108PQ-R47M	0.47	100K / 1.0	0.80	55.0	38.0
APL1108PQ-R65M	0.65	100K / 1.0	0.80	30.0	38.0
APL1108PQ-1R0M	1.00	100K / 1.0	1.30	24.0	31.0
APL1108PQ-1R4M	1.40	100K / 1.0	2.20	22.0	23.0
APL1108PQ-1R8M	1.80	100K / 1.0	2.20	20.0	23.0
APL1108PQ-2R4M	2.40	100K / 1.0	3.30	17.0	20.0
APL1108PQ-3R3M	3.30	100K / 1.0	4.70	13.5	15.0
APL1108PQ-4R2M	4.20	100K / 1.0	6.30	12.0	14.0
APL1108PQ-5R6M	5.60	100K / 1.0	9.20	12.0	10.0

Note:

1. Temperature Rise Current that will cause temperature rise approximate 40°C without core loss. (Ta=25±5°C)
2. Saturation Rated Current that will cause initial inductance value approximately 20% rolloff. (Ta=25±5°C)

## Shielded Construction - DIP / APL-PQ Series

### ■ Electrical Characteristics / APL1108PQ-C

Part Number	Inductance ( $\mu$ H)	Test Condition (Hz / Volt)	DCR(m $\Omega$ ) @25°C $\pm$ 8%	Saturation Current ( A )	Temperature Rise Current ( A )
APL1108PQ-R47M-C	0.47	100K / 1.0	0.80	55.0	38.0
APL1108PQ-R65M-C	0.65	100K / 1.0	0.80	33.0	38.0
APL1108PQ-1R0M-C	1.00	100K / 1.0	1.30	25.0	31.0
APL1108PQ-1R5M-C	1.50	100K / 1.0	2.20	22.0	23.0
APL1108PQ-1R8M-C	1.80	100K / 1.0	2.20	18.0	23.0
APL1108PQ-2R4M-C	2.40	100K / 1.0	3.30	17.0	20.0
APL1108PQ-3R3M-C	3.30	100K / 1.0	4.70	15.0	15.0
APL1108PQ-4R2M-C	4.20	100K / 1.0	6.30	13.0	14.0
APL1108PQ-6R0M-C	6.00	100K / 1.0	9.20	11.0	10.0

### ■ Electrical Characteristics / APL0806PQ

Part Number	Inductance ( $\mu$ H)	Test Condition (Hz / Volt)	DCR(m $\Omega$ ) @25°C $\pm$ 8%	Saturation Current ( A )	Temperature Rise Current ( A )
APL0806PQ-R47M	0.47	100K / 1.0	1.55	22.0	24.0
APL0806PQ-R68M	0.68	100K / 1.0	1.90	16.0	22.0
APL0806PQ-1R0M	1.00	100K / 1.0	2.90	13.0	17.0
APL0806PQ-1R5M	1.50	100K / 1.0	4.60	16.0	13.0
APL0806PQ-2R0M	2.00	100K / 1.0	6.80	12.0	11.0

Note:

1. Temperature Rise Current that will cause temperature rise approximate 40°C without core loss. (Ta=25 $\pm$ 5°C)
2. Saturation Rated Current that will cause initial inductance value approximately 20% rolloff. (Ta=25 $\pm$ 5°C)

**■ Electrical Characteristics / APL0806PQ-C**

Part Number	Inductance ( $\mu$ H)	Test Condition (Hz / Volt)	DCR(m $\Omega$ ) @25°C $\pm$ 8%	Saturation Current ( A )	Temperature Rise Current ( A )
APL0806PQ-R47M-C	0.47	100K / 1.0	1.55	24.0	24.0
APL0806PQ-R68M-C	0.68	100K / 1.0	1.90	19.0	22.0
APL0806PQ-1R0M-C	1.00	100K / 1.0	2.90	10.5	17.0
APL0806PQ-1R6M-C	1.60	100K / 1.0	4.60	12.0	13.0
APL0806PQ-2R2M-C	2.20	100K / 1.0	6.80	10.5	11.0

Note:

1. Temperature Rise Current that will cause temperature rise approximate 40°C without core loss. (Ta=25 $\pm$ 5°C)
2. Saturation Rated Current that will cause initial inductance value approximately 20% rolloff. (Ta=25 $\pm$ 5°C)