# PQ-K Series

## Features

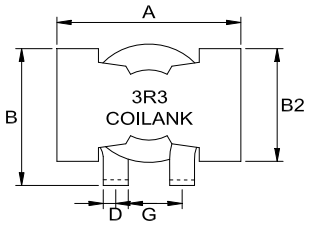
- Assemblage design,sturdy structure.
- High inductance, high current, low magnetic loss, low ERS, small parasitic capacitance.
- Flat wire winding, achieve a low DCR.
- Temperature rise current and saturation current is less influenced by environment.
- Placement form is DIP.

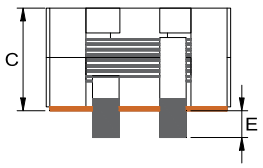
## Test Conditions

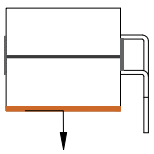
- All test data is referenced to 25℃ ambient.
- Operating temperature range -25℃ to +125℃.(Including self - temperature rise)
- Isat :DC current(A) that will cause lo to drop approximately 30%.
- Irms :DC current(A) that will cause an approximate△T of 40℃.
- The part temperature(ambient + temp rise)should not exceed 125℃ under worst case operating conditions. Circuit design,component placement, PCB trace size and thickness,airflow and other cooling provisions all affect the part temperature,part temperature should be verified in the end application.

## External Dimensions (Unit:mm)



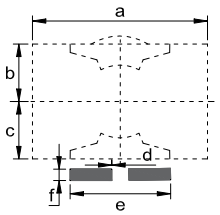



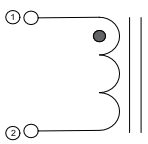
白色绝缘纸或黄色 PCB 板属于选装部件，默认不装。

| TYPE | A | B | B2 | C | D | E | F | G | Q'TY/Box |
|---|---|---|---|---|---|---|---|---|---|
| PQ3218 | 33.5Max | 28.0±1.0 | 23Max | 18.8Max | 6.0±0.3 | 4.0±1.0 | 4.0Ref | 12.0±1.0 | 168 |
| PQ3220 | 33.5Max | 28.0±1.0 | 23Max | 20.5Max | 6.0±0.3 | 4.0±1.0 | 4.0Ref | 12.0±1.0 | 168 |
| PQ3222 | 33.5Max | 28.0±1.0 | 23Max | 22.5Max | 6.0±0.3 | 4.0±1.0 | 4.0Ref | 12.0±1.0 | 168 |
| PQ3225 | 33.5Max | 28.0±1.0 | 23Max | 25.5Max | 6.0±0.3 | 4.0±1.0 | 4.0Ref | 12.0±1.0 | 168 |
| PQ3227 | 33.5Max | 28.0±1.0 | 23Max | 27.5Max | 6.0±0.3 | 4.0±1.0 | 4.0Ref | 12.0±1.0 | 168 |

| a(Ref.) | b(Ref.) | c(Ref.) | d(Ref.) | e(Ref.) | f(Ref.) |
|---|---|---|---|---|---|
| 33.0 | 13.5 | 17.2 | 5.5 | 19.5 | 1.5 |
| 33.0 | 13.5 | 17.2 | 5.5 | 19.5 | 1.5 |
| 33.0 | 13.5 | 17.2 | 5.5 | 19.5 | 1.5 |
| 33.0 | 13.5 | 17.2 | 5.5 | 19.5 | 1.5 |
| 33.0 | 13.5 | 17.2 | 5.5 | 19.5 | 1.5 |




Typical Land Pattern




Schematic

## Part Number Code

| PQ | 3218 | M | 3R3 | K |
|---|---|---|---|---|
| Series Name | Dimensions: L*W*H | Tolerance 20% | Inductance | Internal Control |

### PQ-K Series

| Part Number | Inductance (μH) @100KHz/0.1V | DC Resistance (mΩ) Max. | Heat Rating Current Irms (A)Typ. | Saturation Current Isat (A)Typ. |
|---|---|---|---|---|
| PQ3218M3R3K | 3.3 | 1.45 | 45 | 80 |
| PQ3218M4R7K | 4.7 | 1.45 | 45 | 72 |
| PQ3218M5R0K | 5 | 1.45 | 45 | 70 |
| PQ3218M6R0K | 6 | 1.45 | 45 | 55 |
| PQ3218M6R8K | 6.8 | 1.45 | 45 | 50 |
| PQ3220M1R5K | 1.5 | 0.6 | 80 | 130 |
| PQ3222M100K | 10 | 3 | 45 | 48 |
| PQ3222M150K | 15 | 3 | 45 | 44 |
| PQ3225M100K | 10 | 2.55 | 47 | 50 |
| PQ3227M300K | 30 | 3.55 | 40 | 26 |