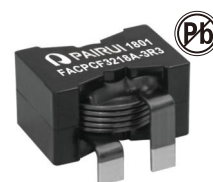


# HIGH CURRENT POWER INDUCTOR FACPCF3218A,3517A SERIES



## FEATURES:

Magnetic shielding structure, excellent resistance to electro magnetic interference.  
Flat wire winding, achieve a low D.C. R resistance.  
Low loss, high efficiency, wide application frequency and application .  
Vertical structure design, save space.  
Operating temperature: -40°C~ +125  
[Including coils temperature rise].

## PRODUCT IDENTIFICATION:

CPCF 3218A - 3R3 MC  
a b c d

a:Series name

b:Product dimensions

c:Inductance Value[1R0:1.0uH;100;10uH;101:100uH]

d:Inductance Tolerance[K:10%;M:20%;N:30%]

## ELECTRICAL CHARACTERISTICS

| Part Number       | Inductance<br>[uH]±20% | DCR[mΩ] |      | Saturation<br>Current[A]<br>Typical | Temperature<br>Current[A]<br>Typical |
|-------------------|------------------------|---------|------|-------------------------------------|--------------------------------------|
|                   |                        | Typical | Max  |                                     |                                      |
| FACPCF3218A-3R3MC | 3.30                   | 1.00    | 1.20 | 80.0                                | 55.0                                 |
| FACPCF3218A-6R8MC | 6.80                   | 1.35    | 1.60 | 55.0                                | 50.0                                 |

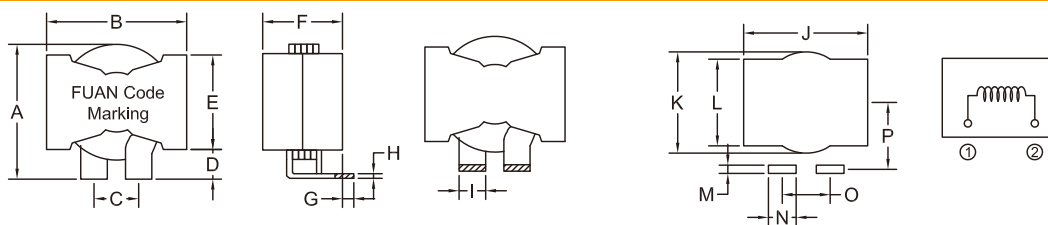
| Part Number       | Inductance<br>[uH]±20% | DCR[mΩ] |      | Saturation<br>Current[A]<br>Typical | Temperature<br>Current[A]<br>Typical |
|-------------------|------------------------|---------|------|-------------------------------------|--------------------------------------|
|                   |                        | Typical | Max  |                                     |                                      |
| FACPCF3517A-1R5MC | 1.50                   | 0.31    | 0.40 | 113                                 | 65.0                                 |
|                   |                        |         |      |                                     |                                      |

## TEST CONDITIONS

1. All data is tested based on 25°C ambient temperature.
2. Inductance measure condition at 100kHz, 0.1V.
3. Saturation current : the actual value of DC current when the inductance decrease 20% of its initial value.
4. Temperature rise current : the actual value of DC current when the temperature rise is  $\Delta T 40$  (Ta=25°C).
5. Special remind : C ircuit design, component placement, PWB size and thickness, cooling system and etc.  
a ll will affect the product temperature. P lease verify the product temperature in the final application.

## TECHNICAL INFORMATION

## ELECTRICAL SCHEMATIC & PAD LAYOUT



| Part No.    | 3R3  | 6R8  |
|-------------|------|------|
| Dimension A | 1.20 | 1.00 |
| Dimension B | 1.80 | 1.60 |

## DIMENSIONS:MM

| Part number | A        | A        | C        | D       | E        | F        | G       | H        | I       | J        |
|-------------|----------|----------|----------|---------|----------|----------|---------|----------|---------|----------|
| FACPCF3218A | 30.7±1.0 | 32.0±1.0 | 12.0±0.5 | 6.7±0.5 | 22.5±1.0 | 18.0±0.5 | 2.5±0.3 | **A±0.2  | 6.0±0.3 | 33.0 REF |
| FACPCF3517A | 35.0 Max | 36.0 Max | 13.5±0.5 |         | 27.0 Max | 17.0±0.5 | 5.0±0.5 | 1.5±0.15 | 8.0±0.3 | 36.0 REF |

| Part number | K        | L        | M       | N       | O        | P        |  |  |  |  |
|-------------|----------|----------|---------|---------|----------|----------|--|--|--|--|
| FACSCI1045  | 28.0 REF | 23.5 REF | **B REF | 7.0 REF | 12.0 REF | 17.3 REF |  |  |  |  |
| FACSCI1050  | 27.0 REF |          | 2.0 REF | 9.0 REF | 13.5 REF | 16.5 REF |  |  |  |  |