

## Shielded Common Mode Choke – SPB\_P4 Type

### Features:

- Low profile, very effective in space-conscious applications.
- Low resistance and high energy storage.

### Applications:

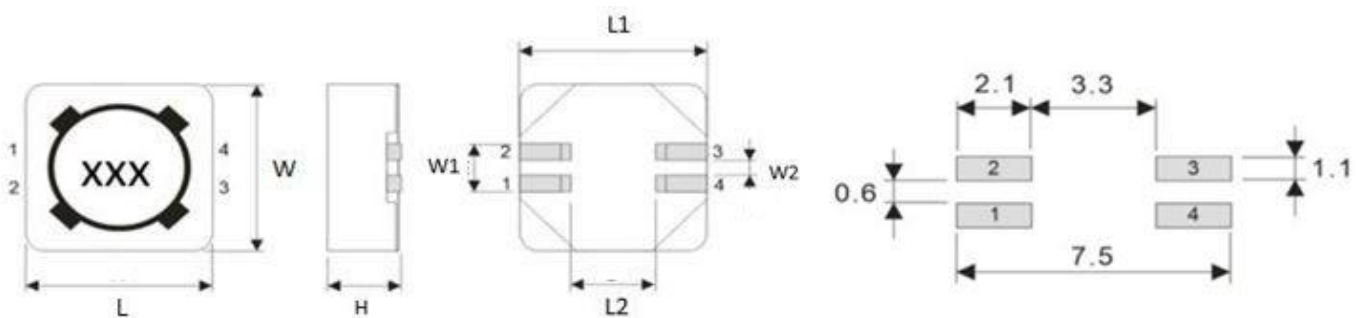
- VTR, OA equipment, digital camera, LCD TV, notebook, PC, portable communication equipments, DC/DC converters, power supply.

### Shape and dimension:

| Part Number | Dimensions (mm) |          |         |         |         |         |         |
|-------------|-----------------|----------|---------|---------|---------|---------|---------|
|             | L               | W        | H       | W1      | W2      | L1      | L2      |
| SPB073P4    | 7.30±0.3        | 7.30±0.3 | 3.5 Ref | 2.7 Typ | 1.0 Typ | 7.3 Typ | 2.9 Typ |
| SPB074P4    | 7.30±0.3        | 7.30±0.3 | 4.5 Max | 2.7 Typ | 1.0 Typ | 7.3 Typ | 2.9 Typ |

1. Operating temperature -40°C ~ +125°C

2. Storage conditions -40°C ~ +40°C, 75% RH max

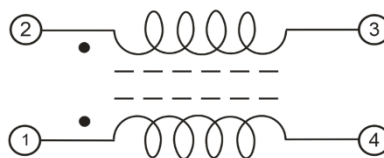


### Material list:

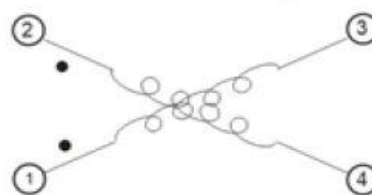
| No. | Location | Material      |
|-----|----------|---------------|
| 1   | Core     | Ni-Zn Ferrite |
| 2   | Wire     | Grade1 P180   |
| 3   | Solder   | Sn99.3 Cu0.7  |
| 4   | Base     | B-12X-A       |
| 5   | Epoxy    | G500HF        |

### Equivalent Circuit Schematic:

#### SPB\_P4P Type



#### SPB\_P4S Type



### Specifications of SPB073P4S:

| Part No.          | Inductance(μH) |               | DCR (mΩ)      | Rated Current (A) | Test Frequency |
|-------------------|----------------|---------------|---------------|-------------------|----------------|
|                   | (N1)=(N2)      | (N1)=(N2),Max | (N1)=(N2),Max | (N1)=(N2)Max      |                |
| SPB073P4S(P)-2R2M | 2,2            | ± 20%         | 50            | 5,50              | 100KHz/0.25V   |
| SPB073P4S(P)-4R7M | 4,7            | ± 20%         | 78            | 3,50              | 100KHz/0.25V   |
| SPB073P4S(P)-100M | 10             | ± 20%         | 240           | 2,50              | 100KHz/0.25V   |
| SPB073P4S(P)-150M | 15             | ± 20%         | 290           | 2,20              | 100KHz/0.25V   |
| SPB073P4S(P)-330M | 33             | ± 20%         | 635           | 1,50              | 100KHz/0.25V   |

### Specifications of SPB074P4S:

| Part No.          | Inductance |       | DCR (mΩ) | Rated Current (A) | Test Frequency |
|-------------------|------------|-------|----------|-------------------|----------------|
|                   | (μH)       | (μH)  | Max.     | Max.              |                |
| SPB074P4S(P)-100M | 10         | ± 20% | 110      | 1,840             | 100KHz/0.25V   |
| SPB074P4S(P)-220M | 22         | ± 20% | 250      | 1,230             | 100KHz/0.25V   |
| SPB074P4S(P)-330M | 33         | ± 20% | 312      | 1,700             | 100KHz/0.25V   |
| SPB074P4S(P)-101M | 100        | ± 20% | 450      | 1,000             | 100KHz/0.25V   |
| SPB074P4S(P)-151M | 150        | ± 20% | 710      | 0,810             | 100KHz/0.25V   |
| SPB074P4S(P)-221M | 220        | ± 20% | 3630     | 0,330             | 100KHz/0.25V   |
| SPB074P4S(P)-471M | 470        | ± 20% | 4300     | 0,150             | 100KHz/0.25V   |