



## Data Sheet

**Customer:**

**Product:** Shielded SMD Power Inductor – PSDB Series

**Sizes.:** 5D28/1003/1004/1005

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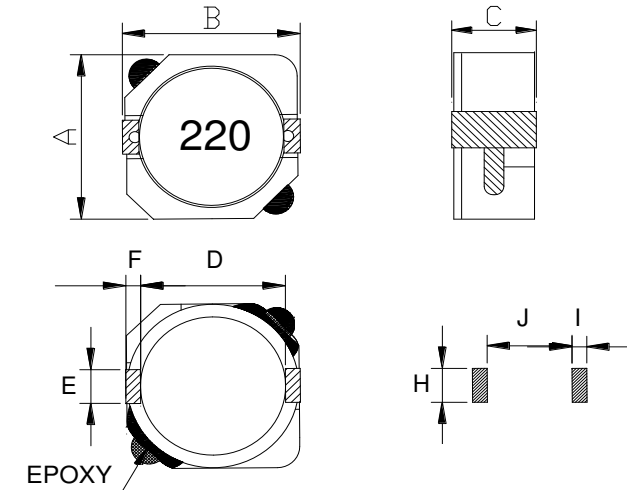
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## Shielded SMD Power Inductor



### Dimensions

Unit: mm

| Type     | A Max. | B Max. | C Max. | D   | E   | F   | H   | I   | J   |
|----------|--------|--------|--------|-----|-----|-----|-----|-----|-----|
| PSDB5D28 | 6.2    | 6.3    | 3.0    | 4.7 | 2.0 | 0.6 | 2.6 | 1.0 | 4.6 |
| PSDB1003 | 10.3   | 10.4   | 3.1    | 7.7 | 3.0 | 1.2 | 3.2 | 1.6 | 7.3 |
| PSDB1004 | 10.3   | 10.4   | 4.0    | 7.7 | 3.0 | 1.2 | 3.2 | 1.6 | 7.3 |
| PSDB1005 | 10.3   | 10.4   | 5.0    | 7.7 | 3.0 | 1.2 | 3.2 | 1.6 | 7.3 |

### Features

- Directly connected electrode on ferrite core
- High power, High saturation inductors
- Ideal inductors for DC/DC converters
- With magnetically shielded against radiation
- Available on tape and reel for automatic surface mounting.

### Inductance and rated current ranges

|            |             |            |
|------------|-------------|------------|
| – PSDB5D28 | 1.0~100μH   | 2.90~0.40A |
| – PSDB1003 | 0.56~1000μH | 6.20~0.23A |
| – PSDB1004 | 0.56~1000μH | 10.0~0.32A |
| – PSDB1005 | 1.5~1000μH  | 10.5~0.35A |

- Test equipment:  
L: HP4284A LCR meter  
DCR: Milli-ohm meter
- Electrical specifications at 25°C

### Applications

- Power Supply for VTRs
- LCD Televisions
- Notebook PCs
- Portable Communication
- DC/DC Converters, etc.

### Characteristics

- Rated DC current: The current when the inductance becomes 35% lower than its initial value or the actual current when the temperature of coil increases to  $\Delta T=40^{\circ}\text{C}$ . The smaller one is defined as Rated DC Current. ( $T_a=25^{\circ}\text{C}$ )
- Operating temperature range:  $-40\sim 125^{\circ}\text{C}$

### Product Identification

| PSDB         | 5D28   | N                              | T                | 101                                   |
|--------------|--|--------------------------------|------------------|---------------------------------------|
| Product Type | Dimensions (AxBxC)   | Inductor Tolerance             | Packaging Style  | Inductance                            |
|              | 5D28: 6.2×6.3×3.0<br>1003: 10.3×10.4×3.1<br>1004: 10.3×10.4×4.0<br>1005: 10.3×10.4×5.0 | M: $\pm 20\%$<br>N: $\pm 30\%$ | T: Tape and Reel | 1R0: 1.0μH<br>470: 47μH<br>101: 100μH |

**■Electrical Characteristics**

PSDB5D28 Type(□:Tolerance):

| Part No         | L<br>( $\mu$ H) | Tolerance | Test<br>Condition | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|-----------------|-----------------|-----------|-------------------|---------------------------|-----------------|
| PSDB5D28□T1R0   | 1.0             | N         | 100KHz, 0.1V      | 15.0                      | 2.90            |
| PSDB5D28□T1R5   | 1.5             | N         | 100KHz, 0.1V      | 16.0                      | 2.80            |
| PSDB5D28□T2R2   | 2.2             | N         | 100KHz, 0.1V      | 17.0                      | 2.70            |
| PSDB5D28□T2R5   | 2.5             | N         | 100KHz, 0.1V      | 17.6                      | 2.60            |
| PSDB5D28□T3R3   | 3.3             | N         | 100KHz, 0.1V      | 20.3                      | 2.30            |
| PSDB5D28□T4R0   | 4.0             | N         | 100KHz, 0.1V      | 27.0                      | 2.10            |
| PSDB5D28□T4R7   | 4.7             | N         | 100KHz, 0.1V      | 29.0                      | 2.00            |
| PSDB5D28□T5R0   | 5.0             | N         | 100KHz, 0.1V      | 31.1                      | 1.85            |
| PSDB5D28□T6R0   | 6.0             | N         | 100KHz, 0.1V      | 41.9                      | 1.70            |
| PSDB5D28□T6R2-1 | 6.2             | M         | 100KHz, 0.25V     | 74                        | 1.49            |
| PSDB5D28□T8R0   | 8.0             | N         | 100KHz, 0.1V      | 49.9                      | 1.50            |
| PSDB5D28□T8R2-1 | 8.2             | M         | 100KHz, 0.25V     | 102                       | 1.25            |
| PSDB5D28□T100   | 10              | N         | 100KHz, 0.1V      | 54.0                      | 1.30            |
| PSDB5D28□T100-1 | 10              | M         | 100KHz, 0.25V     | 118                       | 1.22            |
| PSDB5D28□T120   | 12              | N         | 100KHz, 0.1V      | 71.6                      | 1.20            |
| PSDB5D28□T150   | 15              | N         | 100KHz, 0.1V      | 82.4                      | 1.10            |
| PSDB5D28□T150-1 | 15              | M         | 100KHz, 0.25V     | 179                       | 0.94            |
| PSDB5D28□T180   | 18              | N         | 100KHz, 0.1V      | 101.5                     | 1.05            |
| PSDB5D28□T220   | 22              | N         | 100KHz, 0.1V      | 119.0                     | 0.95            |
| PSDB5D28□T220-1 | 22              | M         | 100KHz, 0.25V     | 253                       | 0.80            |
| PSDB5D28□T270   | 27              | N         | 100KHz, 0.1V      | 146.0                     | 0.85            |
| PSDB5D28□T330   | 33              | N         | 100KHz, 0.1V      | 182.5                     | 0.76            |
| PSDB5D28□T330-1 | 33              | M         | 100KHz, 0.25V     | 368                       | 0.63            |
| PSDB5D28□T390   | 39              | N         | 100KHz, 0.1V      | 209.5                     | 0.68            |
| PSDB5D28□T470   | 47              | N         | 100KHz, 0.1V      | 229.5                     | 0.60            |
| PSDB5D28□T470-1 | 47              | M         | 100KHz, 0.25V     | 542                       | 0.50            |
| PSDB5D28□T560   | 56              | N         | 100KHz, 0.1V      | 305.0                     | 0.55            |
| PSDB5D28□T680   | 68              | N         | 100KHz, 0.1V      | 351.0                     | 0.48            |
| PSDB5D28□T820   | 82              | N         | 100KHz, 0.1V      | 418.5                     | 0.45            |
| PSDB5D28□T101   | 100             | N         | 100KHz, 0.1V      | 520.0                     | 0.40            |

**Shielded SMD Power Inductor**

**■Electrical Characteristics**

PSDB1003 Type(□:Tolerance):

| Part No       | L<br>(μH) | Tolerance | Test<br>Condition | DCR<br>(mΩ) max. | IDC<br>(A) max. |
|---------------|-----------|-----------|-------------------|------------------|-----------------|
| PSDB1003□TR56 | 0.56      | N         | 100KHz, 0.1V      | 20               | 6.20            |
| PSDB1003□T1R0 | 1.0       | N         | 100KHz, 0.1V      | 20               | 6.20            |
| PSDB1003□T1R2 | 1.2       | N         | 100KHz, 0.1V      | 20               | 6.20            |
| PSDB1003□T1R3 | 1.3       | N         | 100KHz, 0.1V      | 20               | 6.20            |
| PSDB1003□T1R5 | 1.5       | N         | 100KHz, 0.1V      | 20               | 6.20            |
| PSDB1003□T1R8 | 1.8       | N         | 100KHz, 0.1V      | 23               | 5.60            |
| PSDB1003□T2R2 | 2.2       | N         | 100KHz, 0.1V      | 23               | 5.60            |
| PSDB1003□T2R5 | 2.5       | N         | 100KHz, 0.1V      | 23               | 5.60            |
| PSDB1003□T2R7 | 2.7       | N         | 100KHz, 0.1V      | 23               | 5.60            |
| PSDB1003□T3R3 | 3.3       | N         | 100KHz, 0.1V      | 29               | 5.00            |
| PSDB1003□T3R8 | 3.8       | N         | 100KHz, 0.1V      | 29               | 5.00            |
| PSDB1003□T4R0 | 4.0       | N         | 100KHz, 0.1V      | 33               | 4.80            |
| PSDB1003□T4R7 | 4.7       | N         | 100KHz, 0.1V      | 35               | 4.83            |
| PSDB1003□T5R0 | 5.0       | N         | 100KHz, 0.1V      | 35               | 4.83            |
| PSDB1003□T5R2 | 5.2       | N         | 100KHz, 0.1V      | 43               | 4.83            |
| PSDB1003□T8R2 | 8.2       | N         | 100KHz, 0.1V      | 50               | 3.54            |
| PSDB1003□T100 | 10        | M, N      | 100KHz, 0.1V      | 58               | 2.70            |
| PSDB1003□T120 | 12        | M, N      | 100KHz, 0.1V      | 72               | 2.25            |
| PSDB1003□T150 | 15        | M, N      | 100KHz, 0.1V      | 86               | 2.22            |
| PSDB1003□T180 | 18        | M, N      | 100KHz, 0.1V      | 116              | 1.90            |
| PSDB1003□T220 | 22        | M, N      | 100KHz, 0.1V      | 145              | 1.78            |
| PSDB1003□T270 | 27        | M, N      | 100KHz, 0.1V      | 176              | 1.63            |
| PSDB1003□T330 | 33        | M, N      | 100KHz, 0.1V      | 213              | 1.46            |
| PSDB1003□T390 | 39        | M, N      | 100KHz, 0.1V      | 270              | 1.32            |
| PSDB1003□T470 | 47        | M, N      | 100KHz, 0.1V      | 299              | 1.18            |
| PSDB1003□T560 | 56        | M, N      | 100KHz, 0.1V      | 335              | 1.10            |
| PSDB1003□T680 | 68        | M, N      | 100KHz, 0.1V      | 451              | 1.04            |
| PSDB1003□T820 | 82        | M, N      | 100KHz, 0.1V      | 513              | 0.94            |
| PSDB1003□T101 | 100       | M, N      | 100KHz, 0.1V      | 700              | 0.84            |
| PSDB1003□T121 | 120       | M, N      | 100KHz, 0.1V      | 765              | 0.76            |
| PSDB1003□T151 | 150       | M, N      | 100KHz, 0.1V      | 876              | 0.70            |
| PSDB1003□T181 | 180       | M, N      | 100KHz, 0.1V      | 1000             | 0.60            |
| PSDB1003□T221 | 220       | M, N      | 100KHz, 0.1V      | 1050             | 0.58            |
| PSDB1003□T271 | 270       | M, N      | 100KHz, 0.1V      | 1500             | 0.56            |
| PSDB1003□T331 | 330       | M, N      | 100KHz, 0.1V      | 1800             | 0.52            |
| PSDB1003□T391 | 390       | M, N      | 100KHz, 0.1V      | 2000             | 0.50            |
| PSDB1003□T471 | 470       | M, N      | 100KHz, 0.1V      | 2170             | 0.48            |
| PSDB1003□T561 | 560       | M, N      | 100KHz, 0.1V      | 2750             | 0.35            |
| PSDB1003□T681 | 680       | M, N      | 100KHz, 0.1V      | 3200             | 0.29            |
| PSDB1003□T821 | 820       | M, N      | 100KHz, 0.1V      | 3800             | 0.28            |
| PSDB1003□T102 | 1000      | M, N      | 100KHz, 0.1V      | 5000             | 0.23            |

**■Electrical Characteristics**

PSDB1004 Type(□:Tolerance):

| Part No       | L<br>( $\mu$ H) | Tolerance | Test<br>Condition | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|---------------|-----------------|-----------|-------------------|---------------------------|-----------------|
| PSDB1004□TR56 | 0.56            | N         | 100KHz, 0.1V      | 8                         | 10.0            |
| PSDB1004□T1R0 | 1.0             | N         | 100KHz, 0.1V      | 8                         | 10.0            |
| PSDB1004□T1R2 | 1.2             | N         | 100KHz, 0.1V      | 8                         | 10.0            |
| PSDB1004□T1R3 | 1.3             | N         | 100KHz, 0.1V      | 8                         | 10.0            |
| PSDB1004□T1R5 | 1.5             | N         | 100KHz, 0.1V      | 8                         | 10.0            |
| PSDB1004□T1R8 | 1.8             | N         | 100KHz, 0.1V      | 10                        | 9.5             |
| PSDB1004□T2R2 | 2.2             | N         | 100KHz, 0.1V      | 11                        | 8.00            |
| PSDB1004□T2R5 | 2.5             | N         | 100KHz, 0.1V      | 12                        | 7.50            |
| PSDB1004□T2R7 | 2.7             | N         | 100KHz, 0.1V      | 12                        | 7.50            |
| PSDB1004□T3R3 | 3.3             | N         | 100KHz, 0.1V      | 13                        | 6.50            |
| PSDB1004□T3R8 | 3.8             | N         | 100KHz, 0.1V      | 17                        | 6.00            |
| PSDB1004□T4R7 | 4.7             | N         | 100KHz, 0.1V      | 21                        | 5.70            |
| PSDB1004□T5R0 | 5.0             | N         | 100KHz, 0.1V      | 22                        | 5.60            |
| PSDB1004□T5R2 | 5.2             | N         | 100KHz, 0.1V      | 22                        | 5.50            |
| PSDB1004□T5R6 | 5.6             | M, N      | 100KHz, 0.1V      | 25                        | 5.20            |
| PSDB1004□T6R8 | 6.8             | M, N      | 100KHz, 0.1V      | 26                        | 4.90            |
| PSDB1004□T7R0 | 7.0             | M, N      | 100KHz, 0.1V      | 27                        | 4.80            |
| PSDB1004□T8R2 | 8.2             | M, N      | 100KHz, 0.1V      | 33                        | 4.60            |
| PSDB1004□T100 | 10              | M, N      | 100KHz, 0.1V      | 35                        | 4.40            |
| PSDB1004□T120 | 12              | M, N      | 100KHz, 0.1V      | 46                        | 3.92            |
| PSDB1004□T150 | 15              | M, N      | 100KHz, 0.1V      | 50                        | 3.60            |
| PSDB1004□T180 | 18              | M, N      | 100KHz, 0.1V      | 70                        | 3.00            |
| PSDB1004□T220 | 22              | M, N      | 100KHz, 0.1V      | 73                        | 2.90            |
| PSDB1004□T270 | 27              | M, N      | 100KHz, 0.1V      | 83                        | 2.80            |
| PSDB1004□T330 | 33              | M, N      | 100KHz, 0.1V      | 93                        | 2.30            |
| PSDB1004□T390 | 39              | M, N      | 100KHz, 0.1V      | 120                       | 2.20            |
| PSDB1004□T470 | 47              | M, N      | 100KHz, 0.1V      | 128                       | 2.10            |
| PSDB1004□T560 | 56              | M, N      | 100KHz, 0.1V      | 171                       | 1.80            |
| PSDB1004□T680 | 68              | M, N      | 100KHz, 0.1V      | 213                       | 1.50            |
| PSDB1004□T820 | 82              | M, N      | 100KHz, 0.1V      | 250                       | 1.40            |
| PSDB1004□T101 | 100             | M, N      | 100KHz, 0.1V      | 304                       | 1.35            |
| PSDB1004□T121 | 120             | M, N      | 100KHz, 0.1V      | 400                       | 1.20            |
| PSDB1004□T151 | 150             | M, N      | 100KHz, 0.1V      | 506                       | 1.15            |
| PSDB1004□T181 | 180             | M, N      | 100KHz, 0.1V      | 631                       | 1.03            |
| PSDB1004□T221 | 220             | M, N      | 100KHz, 0.1V      | 756                       | 0.92            |
| PSDB1004□T271 | 270             | M, N      | 100KHz, 0.1V      | 853                       | 0.84            |
| PSDB1004□T331 | 330             | M, N      | 100KHz, 0.1V      | 1090                      | 0.70            |
| PSDB1004□T391 | 390             | M, N      | 100KHz, 0.1V      | 1450                      | 0.62            |
| PSDB1004□T471 | 470             | M, N      | 100KHz, 0.1V      | 1520                      | 0.54            |
| PSDB1004□T561 | 560             | M, N      | 100KHz, 0.1V      | 2500                      | 0.50            |
| PSDB1004□T681 | 680             | M, N      | 100KHz, 0.1V      | 2800                      | 0.45            |
| PSDB1004□T821 | 820             | M, N      | 100KHz, 0.1V      | 3000                      | 0.40            |
| PSDB1004□T102 | 1000            | M, N      | 100KHz, 0.1V      | 3250                      | 0.32            |

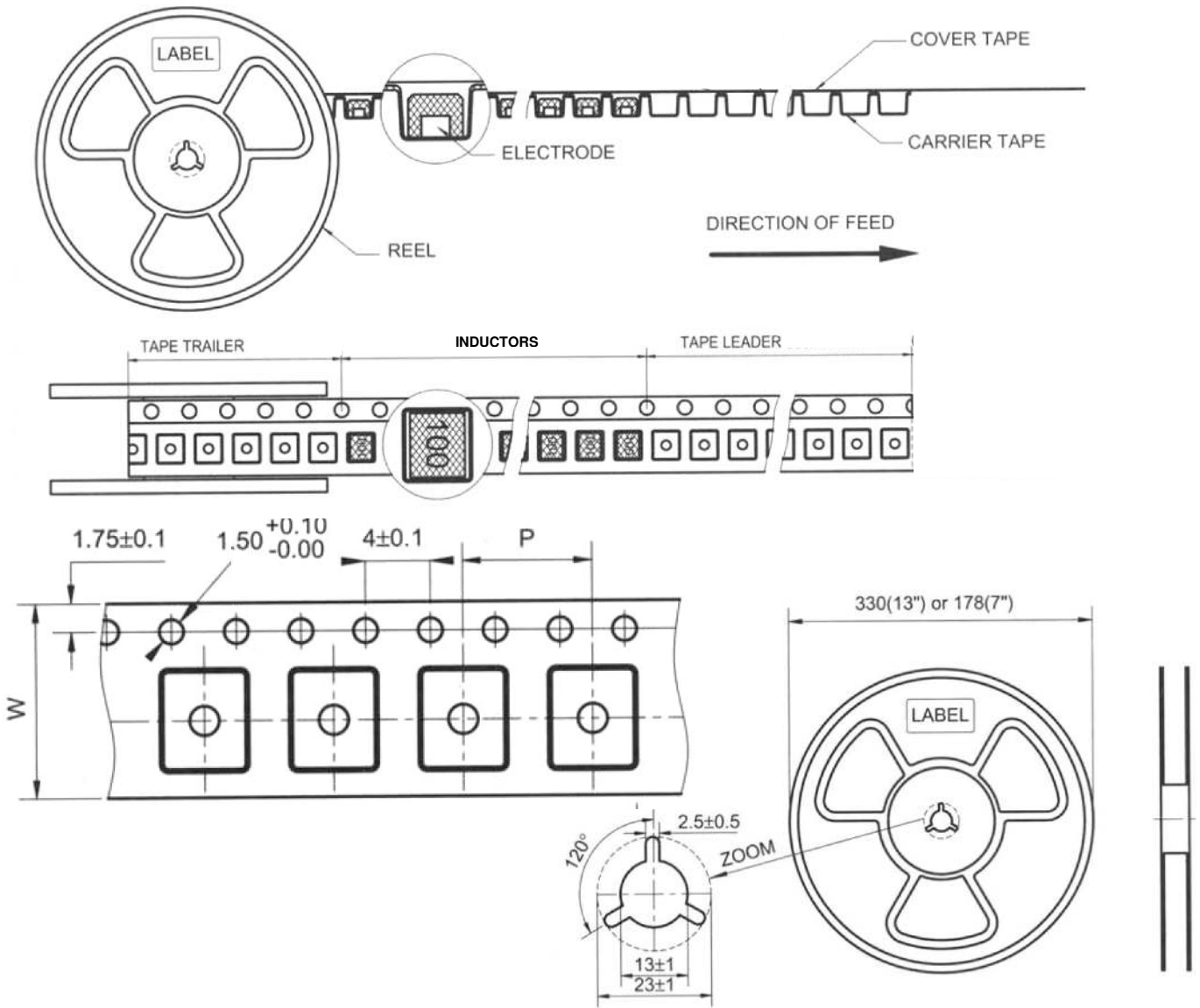
**■Electrical Characteristics**

PSDB1005 Type(□:Tolerance):

| Part No         | L<br>( $\mu$ H) | Tolerance | Test<br>Condition | DCR<br>(m $\Omega$ ) max. | IDC<br>(A) max. |
|-----------------|-----------------|-----------|-------------------|---------------------------|-----------------|
| PSDB1005□T1R5   | 1.5             | N         | 100KHz, 0.1V      | 6                         | 10.5            |
| PSDB1005□T2R2   | 2.2             | N         | 100KHz, 0.1V      | 7                         | 9.25            |
| PSDB1005□T3R3   | 3.3             | N         | 100KHz, 0.1V      | 10                        | 7.80            |
| PSDB1005□T4R7   | 4.7             | N         | 100KHz, 0.1V      | 12                        | 6.40            |
| PSDB1005□T6R8   | 6.8             | N         | 100KHz, 0.1V      | 18                        | 5.40            |
| PSDB1005□T8R2   | 8.2             | N         | 100KHz, 0.1V      | 20                        | 4.85            |
| PSDB1005□T100   | 10              | M, N      | 100KHz, 0.1V      | 26                        | 3.45            |
| PSDB1005□T120   | 12              | M, N      | 100KHz, 0.1V      | 33                        | 3.40            |
| PSDB1005□T150   | 15              | M, N      | 100KHz, 0.1V      | 41                        | 2.83            |
| PSDB1005□T180   | 18              | M, N      | 100KHz, 0.1V      | 46                        | 2.62            |
| PSDB1005□T220   | 22              | M, N      | 100KHz, 0.1V      | 61                        | 2.44            |
| PSDB1005□T270   | 27              | M, N      | 100KHz, 0.1V      | 69                        | 2.24            |
| PSDB1005□T330   | 33              | M, N      | 100KHz, 0.1V      | 84                        | 1.88            |
| PSDB1005□T390   | 39              | M, N      | 100KHz, 0.1V      | 106                       | 1.70            |
| PSDB1005□T470   | 47              | M, N      | 100KHz, 0.1V      | 130                       | 1.56            |
| PSDB1005□T560   | 56              | M, N      | 100KHz, 0.1V      | 149                       | 1.39            |
| PSDB1005□T680   | 68              | M, N      | 100KHz, 0.1V      | 201                       | 1.36            |
| PSDB1005□T820   | 82              | M, N      | 100KHz, 0.1V      | 227                       | 1.20            |
| PSDB1005□T101   | 100             | M, N      | 100KHz, 0.1V      | 253                       | 1.09            |
| PSDB1005□T101-1 | 100             | M         | 100KHz, 0.1V      | 253                       | 1.35            |
| PSDB1005□T121   | 120             | M, N      | 100KHz, 0.1V      | 303                       | 1.00            |
| PSDB1005□T151   | 150             | M, N      | 100KHz, 0.1V      | 370                       | 0.91            |
| PSDB1005□T181   | 180             | M, N      | 100KHz, 0.1V      | 419                       | 0.84            |
| PSDB1005□T221   | 220             | M, N      | 100KHz, 0.1V      | 500                       | 0.75            |
| PSDB1005□T271   | 270             | M, N      | 100KHz, 0.1V      | 672                       | 0.68            |
| PSDB1005□T331   | 330             | M, N      | 100KHz, 0.1V      | 812                       | 0.60            |
| PSDB1005□T391   | 390             | M, N      | 100KHz, 0.1V      | 953                       | 0.57            |
| PSDB1005□T471   | 470             | M, N      | 100KHz, 0.1V      | 1289                      | 0.50            |
| PSDB1005□T561   | 560             | M, N      | 100KHz, 0.1V      | 1430                      | 0.47            |
| PSDB1005□T681   | 680             | M, N      | 100KHz, 0.1V      | 1599                      | 0.43            |
| PSDB1005□T821   | 820             | M, N      | 100KHz, 0.1V      | 1768                      | 0.39            |
| PSDB1005□T102   | 1000            | M, N      | 100KHz, 0.1V      | 1989                      | 0.35            |

**Shielded SMD Power Inductor**

**■Tape and Reel specifications**



Unit: mm

| Type     | Tape size |    | Parts Per Reel |
|----------|-----------|----|----------------|
|          | W         | P  | 13'            |
| PSDB5D28 | 12        | 8  | 2000           |
| PSDB1003 | 24        | 16 | 1000           |
| PSDB1004 | 24        | 16 | 750            |
| PSDB1005 | 24        | 16 | 750            |

**Shielded SMD Power Inductor**

**■ SMD Power Inductor Environmental Specifications**

General

| Items                    | Specifications  |
|--------------------------|---|
| Shelf Storage conditions | Temperature range: 15~28°C ; Humidity: <80% relative humidity.<br>Recommended product should be used within one year from the time of delivery. |

Environmental test

| Test Items                    | Specifications   | Test Conditions / Test Methods  |
|-------------------------------|--|---|
| High temperature Storage test | No case deformation or change in appearance.<br>$\Delta L/L \leq 10\%$ | Temperature 85±2°C,<br>Time: 48±2 hours,<br>Tested after 1 hour at room temperature.  |
| Low temperature Storage test  |  | Temperature -40±2°C,<br>Time: 48±2 hours,<br>Tested after 1 hour at room temperature.   |
| Humidity test                 |  | Temperature 40±2°C, 90~95% relative humidity<br>Time: 96±2 hours<br>Tested after 1 hour at room temperature.                                  |
| Thermal shock test            |  | First -25°C 30minutes then 25°C 10 minutes last 85°C 30 minutes, as 1 cycle. Go through 5 cycles.<br>Tested after 1 hour at room temperature. |

Mechanical test

| Test Items                   | Specifications   | Test Conditions / Test Methods  |
|------------------------------|--|---|
| Solderability test           | Terminal area must have 90% minimum solder coverage.                   | Product with Lead-free terminal:<br>Dip pads in flux then dip in solder pot at 245±5°C for 3 seconds.   |
| Resistance to Soldering Heat | No case deformation or change in appearance.                           | Flux should cover the whole of the sample before heating, then be preheated for about 2 minutes over temperature of 130~150°C. Immersing to 260±5°C for 10 seconds. |
| Vibration test               | No case deformation or change in appearance.<br>$\Delta L/L \leq 10\%$ | Apply frequency 10~55Hz. 1.5mm amplitude in each of perpendicular direction for 2 hours.  |
| Shock resistance             |  | Drop down with 981m/s <sup>2</sup> (100G) shock attitude upon a rubber block method shock testing machine, for 1 time. In each of three orientations.               |

The condition of reflow (recommendation):

