



SMD Coils

Common Mode Choke Coils - TCB5FL SMD Series / 小型贴片共模电感线圈

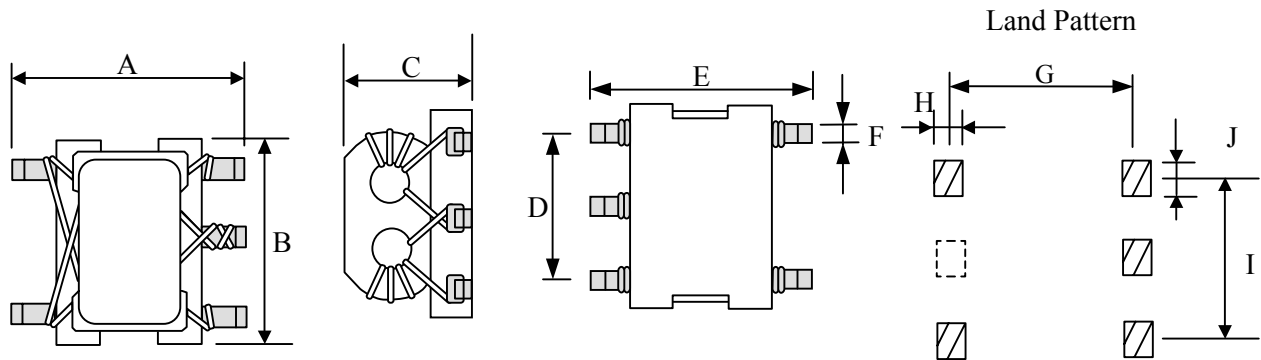
► SMD Common Mode Coil Features

Pair wire coil for high stability.

► Applications

Double balance mixers, broad-band transformers;
Impedance transformers, balun transformers, etc..

► SMD Common Mode Coil Configurations & Dimensions (unit: mm)



| Type | A±0.3 | B(max) | C(max) | D±0.5 | E(max) | F±0.05 | G | H | I | J |
|--------|-------|--------|--------|-------|--------|--------|-----|-----|-----|-----|
| TCB5FL | 3.8 | 6.9 | 3.9 | 4.0 | 6.9 | 0.6 | 5.5 | 1.3 | 4.0 | 1.0 |

Note: Design as Customer's Requested Specifications.

► SMD Common Mode Coil Electrical Characteristics for TCB5FL Series

| Part Number | Winding Turns | Operating Freq. Ranges (MHz) | Insertion Loss (dB) | Figure |
|------------------------------|---------------|------------------------------|---------------------|--------|
| Double balanced mixer | | | | |
| TCB5FL - 616DB1003 | 2 | 30 ~ 850 | 3 | 1 |
| TCB5FL - 616DB1004 | 3 | 6.5 ~ 1000 | 3 | 1 |
| TCB5FL - 616DB1007 | 4 | 3.5 ~ 1600 | 3 | 1 |
| TCB5FL - 616DB1008 | 5 | 2.5 ~ 1500 | 3 | 1 |
| Frequency mixer | | | | |
| TCB5FL - 616PT1027 | 1 | - | 3 | 2 |
| TCB5FL - 616PT1028 | 2 | 8 ~ 550 | 3 | 2 |
| TCB5FL - 616PT1029 | 3 | 3.5 ~ 500 | 3 | 2 |
| TCB5FL - 616PT1030 | 4 | 2 ~ 370 | 3 | 2 |
| TCB5FL - 616PT1037 | 1 | - | 3 | 2 |
| TCB5FL - 616PT1038 | 2 | 500 ~ 850 | 3 | 2 |
| TCB5FL - 616PT1039 | 3 | 240 ~ 500 | 3 | 2 |
| TCB5FL - 616PT1040 | 4 | 85 ~ 380 | 3 | 2 |
| Balun transformer | | | | |
| TCB5FL - 616DB1048 | 1.5 | 5.5 ~ 850 | 3 | 3 |
| TCB5FL - 616DB1049 | 2.5 | 2.5 ~ 2000 | 3 | 3 |
| TCB5FL - 616DB1050 | 3.5 | 1.2 ~ 1700 | 3 | 3 |

Continued on the following page. ↘

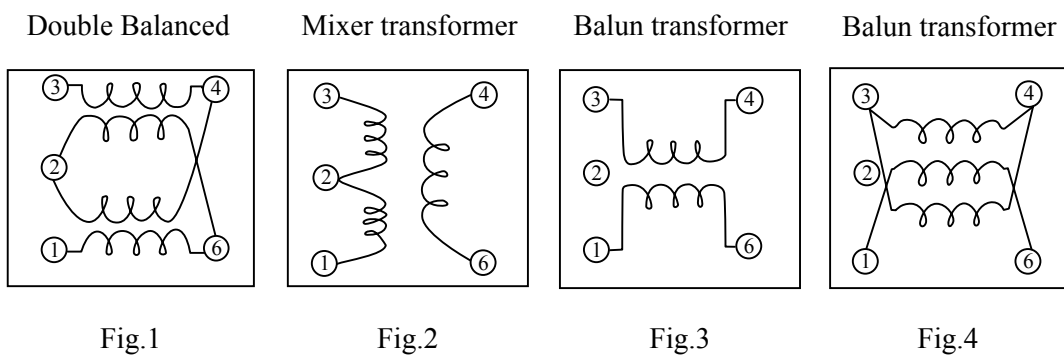


SMD Coils

Continued from the preceding page.

| Part Number | Winding Turns | Operating Freq. Ranges (MHz) | Insertion Loss (dB) | Figure |
|--------------------|---------------|------------------------------|---------------------|--------|
| TCB5FL - 616DB1051 | 4.5 | 0.8 ~ 1400 | 3 | 3 |
| TCB5FL - 616DB1078 | 5.5 | 0.6 ~ 1300 | 3 | 3 |
| Balun transformer | | | | |
| TCB5FL - 616DB1053 | 1.5 | 160 ~ 2200 | 3 | 4 |
| TCB5FL - 616DB1017 | 2.5 | 55 ~ 1700 | 3 | 4 |
| TCB5FL - 616DB1054 | 3.5 | 30 ~ 1400 | 3 | 4 |

SMD Common Mode Coil Pin connections Diagram



How to Order

TCB5FL - 616DB1003

① ②

① SMD Choke Coils Common Mode

② Type

| Code | Type |
|-------|----------------------|
| 616DB | Double balance mixer |
| 616DB | Balun Transformer |
| 616PT | Frequency mixer |