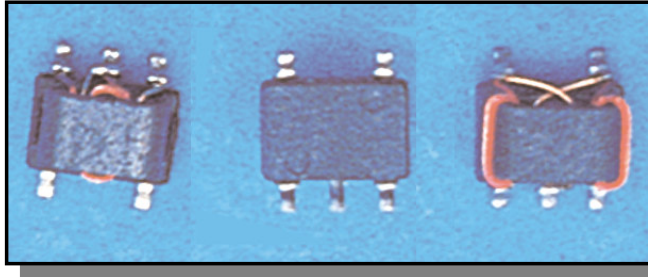




# SMD BALUN TRANSFORMER



## Features

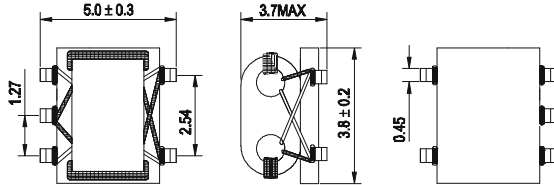
- Paired wire coil for high stability.
- Base pin terminal treated, allowing mounting 'as is' on a PCB.

## Applications

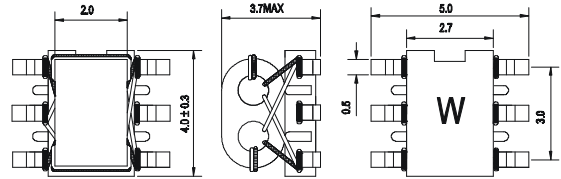
- Double balance mixers, broad-band transformers, impedance transformers, etc.

## DIMENSIONS:(mm)

### BLT-0303D Series



### BLT-0403D Series



## SPECIFICATION:

| Part No.                     | WINDING TURNS (T) | OPERATING FREQUENCY RANGE (MHz) | INSERTION LOSS (dB)                        | CONNECTION |
|------------------------------|-------------------|---------------------------------|--|------------|
| <b>Double balanced mixer</b> |                   |                                 |  |            |
| BLT-0303D-002TA              | 1½                | 25-2000                         | 3  | (A)        |
| BLT-0303D-003TA              | 2½                | 6-2000                          | 3  |            |
| BLT-0303D-004TA              | 3½                | 3.5-2000                        | 3  |            |
| BLT-0303D-005TA              | 4½                | 2-2000                          | 3  |            |
| <b>Frequency mixer</b>       |                   |                                 |  |            |
| BLT-0303D-002TB              | 1½                | 8-750                           | 3  | (B)        |
| BLT-0303D-003TB              | 2½                | 3.5-700                         | 3  |            |
| BLT-0303D-004TB              | 3½                | 2-800                           | 3  |            |
| <b>Balun transformer</b>     |                   |                                 |  |            |
| BLT-0303D-002TC              | 1½                | 20-750                          | 3  | (C)        |
| BLT-0303D-003TC              | 2½                | 4.5-3000                        | 3  |            |
| BLT-0303D-004TC              | 3½                | 2.3-2700                        | 3  |            |
| BLT-0303D-005TC              | 4½                | 1.5-2400                        | 3  |            |
| <b>Balun transformer</b>     |                   |                                 |  |            |
| BLT-0303D-002TD              | 1½                | 160-2000                        | 3  | (D)        |
| BLT-0303D-003TD              | 2½                | 55-1700                         | 3  |            |
| BLT-0303D-004TD              | 3½                | 30-1400                         | 3  |            |
| <b>Distributor</b>           |                   |                                 |  |            |
| BLT-0303D-002TE              | 1½                | 1300-1700                       | IN to OUT-1,2<br>4.5dB max.                | (E)        |
| BLT-0303D-003TE              | 2½                | 800-1000                        | IN to OUT-1,2<br>4.5dB max.                |            |
| BLT-0303D-004TE              | 3½                | 750-1000                        | OUT-1 to OUT-2<br>(ISOLATION)<br>15dB min. |            |
| <b>Directional coupler</b>   |                   |                                 |  |            |
| BLT-0303D-002TF              | 1½                | 10-500                          | IN to OUT-1 2.0dB max                      | (F)        |
| BLT-0303D-003TF              | 2½                | 10-500                          | IN to OUT-1 1.8dB max                      |            |
| BLT-0303D-004TF              | 3½                | 10-500                          | IN to OUT-1 1.5dB max                      |            |
| BLT-0303D-005TF              | 4½                | 10-500                          | IN to OUT-1 1.3dB max                      |            |
| BLT-0303D-006TF              | 5½                | 10-500                          | IN to OUT-1 1.0dB max                      |            |

| Part No.                     | WINDING TURNS (T) | OPERATING FREQUENCY RANGE (MHz) | INSERTION LOSS (dB)                        | CONNECTION |
|------------------------------|-------------------|---------------------------------|--|------------|
| <b>Double balanced mixer</b> |                   |                                 |  |            |
| BLT-0403D-002TA              | 1½                | 25-2000                         | 3  | (A)        |
| BLT-0403D-003TA              | 2½                | 150-2300                        | 3  |            |
| BLT-0403D-004TA              | 3½                | 3.5-2000                        | 3  |            |
| BLT-0403D-005TA              | 4½                | 2-2000                          | 3  |            |
| <b>Frequency mixer</b>       |                   |                                 |  |            |
| BLT-0403D-002TB              | 1½                | 8-750                           | 3  | (B)        |
| BLT-0403D-003TB              | 2½                | 3.5-700                         | 3  |            |
| BLT-0403D-004TB              | 3½                | 2-800                           | 3  |            |
| <b>Balun transformer</b>     |                   |                                 |  |            |
| BLT-0403D-002TC              | 1½                | 20-750                          | 3  | (C)        |
| BLT-0403D-003TC              | 2½                | 4.5-3000                        | 3  |            |
| BLT-0403D-004TC              | 3½                | 2.3-2700                        | 3  |            |
| BLT-0403D-005TC              | 4½                | 4.0-2400                        | 3  |            |
| <b>Balun transformer</b>     |                   |                                 |  |            |
| BLT-0403D-002TD              | 1½                | 160-2000                        | 3  | (D)        |
| BLT-0403D-003TD              | 2½                | 55-1700                         | 3  |            |
| BLT-0403D-004TD              | 3½                | 30-1400                         | 3  |            |
| <b>Distributor</b>           |                   |                                 |  |            |
| BLT-0403D-002TE              | 1½                | 1300-1700                       | IN to OUT-1,2<br>4.5dB max.                | (E)        |
| BLT-0403D-003TE              | 2½                | 800-1000                        | IN to OUT-1,2<br>4.5dB max.                |            |
| BLT-0403D-004TE              | 3½                | 750-1000                        | OUT-1 to OUT-2<br>(ISOLATION)<br>15dB min. |            |
| <b>Directional coupler</b>   |                   |                                 |  |            |
| BLT-0403D-002TF              | 1½                | 10-500                          | IN to OUT-1 2.0dB max                      | (F)        |
| BLT-0403D-003TF              | 2½                | 10-500                          | IN to OUT-1 1.8dB max                      |            |
| BLT-0403D-004TF              | 3½                | 10-500                          | IN to OUT-1 1.5dB max                      |            |
| BLT-0403D-005TF              | 4½                | 10-500                          | IN to OUT-1 1.3dB max                      |            |
| BLT-0403D-006TF              | 5½                | 10-500                          | IN to OUT-1 1.0dB max                      |            |

## CONNECTIONS:

