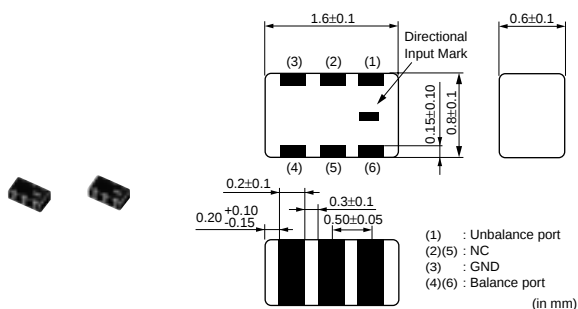


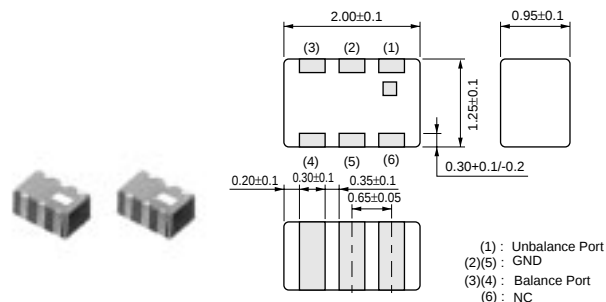
# Chip Multilayer Hybrid Baluns

## Chip Multilayer Hybrid Baluns



LDB18 Series

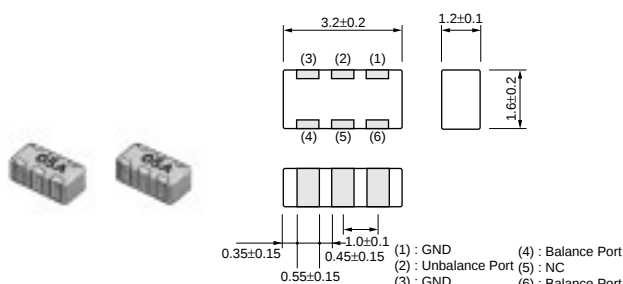
\*Terminal of "NC" should be fixed to the no connected pattern.  
All the technical data and Information contained herein are subject to change without prior notice.



LDB21 Series

\* Terminal of "NC" should be connected to the floating land.  
\* All the technical data and information contained herein are subject to change without prior notice.

(in mm)



LDB31 Series

\* Terminal of "NC" should be connected to the floating land.  
(in mm)

| Part Number      | Frequency Range (MHz) | Insertion Loss I (dB) | Insertion Loss II (dB) | Unbalance Impedance (ohm) | Balance Impedance (Differential) (ohm) |
|------------------|-----------------------|-----------------------|------------------------|---------------------------|----------------------------------------|
| LDB181G8405C-110 | 1842.5 ±37.5MHz       | 1.2 max. (at 25°C)    | 1.3 max. (-40~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB181G8420C-110 | 1842.5 ±37.5MHz       | 1.3 max. (at 25°C)    | 1.4 max. (-40~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB181G8820C-110 | 1880.0 ±30.0MHz       | 1.3 max. (at 25°C)    | 1.4 max. (-40~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB181G9505C-110 | 1955.0 ±35.0MHz       | 1.2 max. (at 25°C)    | 1.3 max. (-40~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB181G9510C-110 | 1955.0 ±35.0MHz       | 1.2 max. (at 25°C)    | 1.3 max. (-40~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB182G4505C-110 | 2450.0 ±50.0MHz       | 1.0 max. (at 25°C)    | 1.1 max. (-40~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB182G4510C-110 | 2450.0 ±50.0MHz       | 1.0 max. (at 25°C)    | 1.1 max. (-40~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB182G4520C-110 | 2450.0 ±50.0MHz       | 1.3 max. (at 25°C)    | 1.4 max. (-40~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB183G7010C-110 | 3700.0 ±300.0MHz      | 1.4 max. (at 25°C)    | 1.5 max. (-40~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB184G5010C-110 | 4500.0 ±300.0MHz      | 1.1 max. (at 25°C)    | 1.2 max. (-40~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB211G6005C-001 | 1600 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB211G6010C-001 | 1600 ±100MHz          | 0.9 max. (at 25°C)    | 1.0 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB211G6020C-001 | 1600 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB211G8005C-001 | 1800 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB211G8010C-001 | 1800 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB211G8020C-001 | 1800 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB211G9005C-001 | 1900 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB211G9010C-001 | 1900 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB211G9020C-001 | 1900 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB212G4005C-001 | 2400 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB212G4010C-001 | 2400 ±100MHz          | 0.9 max. (at 25°C)    | 1.0 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| LDB212G4020C-001 | 2400 ±100MHz          | 1.0 max. (at 25°C)    | 1.1 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB21836M20C-001 | 836.5 ±12.5MHz        | 1.0 max. (at 25°C)    | 1.1 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB21881M05C-001 | 881.5 ±12.5MHz        | 1.4 max. (at 25°C)    | 1.5 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB21881M20C-001 | 881.5 ±12.5MHz        | 1.4 max. (at 25°C)    | 1.5 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| LDB21897M05C-001 | 897.5 ±17.5MHz        | 1.4 max. (at 25°C)    | 1.5 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| LDB21906M05C-001 | 906.0 ±19.0MHz        | 1.4 max. (at 25°C)    | 1.5 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |

Continued on the following page.

**Note** • This catalog has only typical specifications because there is no space for detailed specifications. Therefore, please approve our product specifications or transact the approval sheet for product specifications before ordering. Especially, please read rating and **CAUTION** (for storage, operating, rating, soldering, mounting and handling) in them to prevent smoking and/or burning, etc.  
• You are able to read a detailed specifications in the website (<http://search.murata.co.jp/>) before to require our product specifications or to transact the approval sheet for product specifications.

Continued from the preceding page.

| Part Number             | Frequency Range (MHz) | Insertion Loss I (dB) | Insertion Loss II (dB) | Unbalance Impedance (ohm) | Balance Impedance (Differential) (ohm) |
|-------------------------|-----------------------|-----------------------|------------------------|---------------------------|----------------------------------------|
| <b>LDB21906M20C-001</b> | 906.0 ±19.0MHz        | 1.3 max. (at 25°C)    | 1.4 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB21924M05C-001</b> | 924.5 ±35.5MHz        | 1.3 max. (at 25°C)    | 1.4 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB21924M20C-001</b> | 924.5 ±35.5MHz        | 1.3 max. (at 25°C)    | 1.4 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB21942M05C-001</b> | 942.5 ±17.5MHz        | 1.4 max. (at 25°C)    | 1.5 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB21942M20C-001</b> | 942.5 ±17.5MHz        | 1.3 max. (at 25°C)    | 1.4 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB311G5005C-300</b> | 1500 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB311G5010C-300</b> | 1500 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| <b>LDB311G5020C-420</b> | 1500 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB311G6005C-300</b> | 1600 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB311G6010C-300</b> | 1600 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| <b>LDB311G6020C-300</b> | 1600 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB311G7005C-300</b> | 1700 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB311G7010C-300</b> | 1700 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| <b>LDB311G7020C-300</b> | 1700 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB311G8005C-300</b> | 1800 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB311G8010C-451</b> | 1800 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| <b>LDB311G8020C-300</b> | 1800 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB311G9005C-300</b> | 1900 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB311G9010C-440</b> | 1900 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| <b>LDB311G9020C-452</b> | 1900 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB312G4005C-300</b> | 2400 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB312G4010C-418</b> | 2400 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 100 (Nominal)                          |
| <b>LDB312G4020C-301</b> | 2400 ±100MHz          | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |
| <b>LDB31900M05C-417</b> | 900 ±100MHz           | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 50 (Nominal)                           |
| <b>LDB31900M20C-416</b> | 900 ±100MHz           | 0.8 max. (at 25°C)    | 0.9 max. (-25~+85°C)   | 50 (Nominal)              | 200 (Nominal)                          |