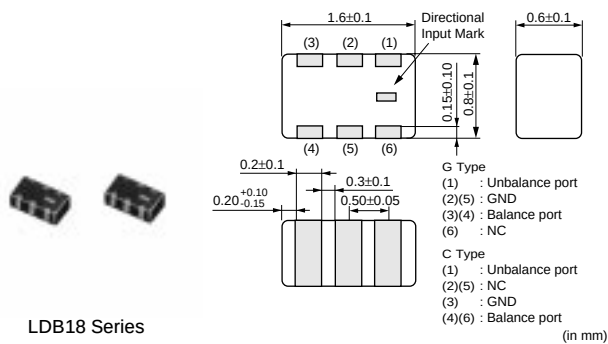
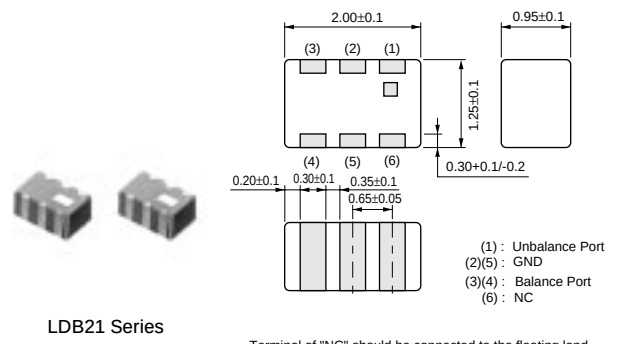


## Chip Multilayer Hybrid Baluns



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)

| Part Number      | Frequency Range (MHz) | Insertion Loss I) (dB) | Insertion Loss II) (dB) | Unbalance Impedance (Nom.) (ohm) | Balance Impedance (Nom.) (ohm) | Application |
|------------------|-----------------------|------------------------|-------------------------|----------------------------------|--------------------------------|-------------|
| LDB181G8115G-120 | 1810 ±100MHz          | 1.1 max. (at 25°C)     | 1.2 max. (-40~+85°C)    | 50                               | 150                            | GSM         |
| LDB181G8120G-120 | 1810 ±100MHz          | 1.2 max. (at 25°C)     | 1.3 max. (-40~+85°C)    | 50                               | 200                            | GSM         |
| LDB181G9505C-110 | 1955.0 ±35.0MHz       | 1.2 max. (at 25°C)     | 1.3 max. (-40~+85°C)    | 50                               | 50                             | GSM         |
| LDB181G9510C-110 | 1955.0 ±35.0MHz       | 1.2 max. (at 25°C)     | 1.3 max. (-40~+85°C)    | 50                               | 100                            | GSM         |
| LDB182G4505C-110 | 2450.0 ±50.0MHz       | 1.0 max. (at 25°C)     | 1.1 max. (-40~+85°C)    | 50                               | 50                             | WLAN/BT     |
| LDB182G4510C-110 | 2450.0 ±50.0MHz       | 1.0 max. (at 25°C)     | 1.1 max. (-40~+85°C)    | 50                               | 100                            | WLAN/BT     |
| LDB182G4510G-120 | 2450.0 ±50.0MHz       | 1.1 max. (at 25°C)     | 1.2 max. (-40~+85°C)    | 50                               | 100                            | WLAN/BT     |
| LDB182G4520C-110 | 2450.0 ±50.0MHz       | 1.3 max. (at 25°C)     | 1.4 max. (-40~+85°C)    | 50                               | 200                            | WLAN/BT     |
| LDB182G5005G-120 | 2500 ±200MHz          | 1.15 max. (at 25°C)    | 1.25 max. (-40~+85°C)   | 50                               | 50                             | WIMAX       |
| LDB182G5010G-120 | 2500 ±200MHz          | 1.1 max. (at 25°C)     | 1.2 max. (-40~+85°C)    | 50                               | 100                            | WIMAX       |
| LDB183G4505G-120 | 3450 ±150MHz          | 1.25 max. (at 25°C)    | 1.35 max. (-40~+85°C)   | 50                               | 50                             | WIMAX       |
| LDB183G4510G-120 | 3450 ±150MHz          | 1.25 max. (at 25°C)    | 1.35 max. (-40~+85°C)   | 50                               | 100                            | WIMAX       |
| LDB183G6005G-120 | 3600 ±300MHz          | 1.3 max. (at 25°C)     | 1.4 max. (-40~+85°C)    | 50                               | 50                             | WIMAX       |
| LDB183G6010G-120 | 3600 ±300MHz          | 1.4 max. (at 25°C)     | 1.5 max. (-40~+85°C)    | 50                               | 100                            | WIMAX       |
| LDB183G7010C-110 | 3700.0 ±300.0MHz      | 1.4 max. (at 25°C)     | 1.5 max. (-40~+85°C)    | 50                               | 100                            | GSM         |
| LDB184G5010C-110 | 4500.0 ±300.0MHz      | 1.1 max. (at 25°C)     | 1.2 max. (-40~+85°C)    | 50                               | 100                            | GSM         |
| LDB185G3705G-120 | 5375 ±475MHz          | 1.50 max. (at 25°C)    | 1.65 max. (-40~+85°C)   | 50                               | 50                             | WLAN/BT     |
| LDB185G3710G-120 | 5375 ±475MHz          | 1.20 max. (at 25°C)    | 1.35 max. (-40~+85°C)   | 50                               | 100                            | WLAN/BT     |
| LDB18869M10G-120 | 869.5 ±45.5MHz        | 1.0 max. (at 25°C)     | 1.1 max. (-40~+85°C)    | 50                               | 100                            | GSM         |
| LDB18869M15G-120 | 869.5 ±45.5MHz        | 1.0 max. (at 25°C)     | 1.1 max. (-40~+85°C)    | 50                               | 150                            | GSM         |
| LDB211G8105C-001 | 1815 ±105MHz          | 1.0 max. (at 25°C)     | 1.1 max. (-40~+85°C)    | 50                               | 50                             | GSM         |
| LDB211G8110C-001 | 1810 ±100MHz          | 0.8 max. (at 25°C)     | 0.9 max. (-40~+85°C)    | 50                               | 100                            | GSM         |
| LDB211G8115C-001 | 1810 ±100MHz          | 0.8 max. (at 25°C)     | 0.9 max. (-40~+85°C)    | 50                               | 150                            | GSM         |
| LDB211G8120C-002 | 1810 ±100MHz          | 0.8 max. (at 25°C)     | 0.9 max. (-40~+85°C)    | 50                               | 200                            | GSM         |
| LDB212G4005C-001 | 2400 ±100MHz          | 0.8 max. (at 25°C)     | 0.9 max. (-40~+85°C)    | 50                               | 50                             | WLAN/BT     |
| LDB212G4010C-001 | 2400 ±100MHz          | 0.9 max. (at 25°C)     | 1.0 max. (-40~+85°C)    | 50                               | 100                            | WLAN/BT     |
| LDB212G4020C-001 | 2400 ±100MHz          | 0.95 max. (at 25°C)    | 1.05 max. (-40~+85°C)   | 50                               | 200                            | WLAN/BT     |
| LDB213G7010C-002 | 3700 ±300MHz          | 1.0 max. (at 25°C)     | 1.1 max. (-40~+85°C)    | 50                               | 100                            | GSM         |
| LDB213G7020C-001 | 3700 ±300MHz          | 2.2 max. (at 25°C)     | 2.3 max. (-40~+85°C)    | 50                               | 200                            | GSM         |
| LDB215G1210C-001 | 5125 ±225MHz          | 1.10 max. (at 25°C)    | 1.25 max. (-40~+85°C)   | 50                               | 100                            | WLAN/BT     |
| LDB215G2505C-001 | 5250 ±100MHz          | 1.10 max. (at 25°C)    | 1.25 max. (-40~+85°C)   | 50                               | 50                             | WLAN/BT     |
| LDB215G2510C-001 | 5250 ±100MHz          | 0.95 max. (at 25°C)    | 1.10 max. (-40~+85°C)   | 50                               | 100                            | WLAN/BT     |
| LDB215G2520C-001 | 5250 ±100MHz          | 1.10 max. (at 25°C)    | 1.25 max. (-40~+85°C)   | 50                               | 200                            | WLAN/BT     |
| LDB215G3710C-001 | 5375 ±475MHz          | 0.95 max. (at 25°C)    | 1.10 max. (-40~+85°C)   | 50                               | 100                            | WLAN/BT     |
| LDB215G5105C-001 | 5512 ±363MHz          | 1.10 max. (at 25°C)    | 1.25 max. (-40~+85°C)   | 50                               | 50                             | WLAN/BT     |
| LDB215G5110C-001 | 5512 ±363MHz          | 0.95 max. (at 25°C)    | 1.10 max. (-40~+85°C)   | 50                               | 100                            | WLAN/BT     |
| LDB215G5120C-001 | 5512 ±363MHz          | 1.10 max. (at 25°C)    | 1.25 max. (-40~+85°C)   | 50                               | 200                            | WLAN/BT     |
| LDB21869M10C-001 | 869.5 ±45.5MHz        | 1.0 max. (at 25°C)     | 1.1 max. (-40~+85°C)    | 50                               | 100                            | GSM         |
| LDB21869M15C-001 | 869.5 ±45.5MHz        | 1.2 max. (at 25°C)     | 1.3 max. (-40~+85°C)    | 50                               | 150                            | GSM         |
| LDB21869M20C-001 | 869.5 ±45.5MHz        | 1.2 max. (at 25°C)     | 1.3 max. (-40~+85°C)    | 50                               | 200                            | GSM         |

Continued on the following page.

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| Part Number             | Frequency Range (MHz) | Insertion Loss I) (dB) | Insertion Loss II) (dB) | Unbalance Impedance (Nom.) (ohm) | Balance Impedance (Nom.) (ohm) | Application |
|-------------------------|-----------------------|------------------------|-------------------------|----------------------------------|--------------------------------|-------------|
| <b>LDB21881M05C-001</b> | 881.5 ±12.5MHz        | 1.4 max. (at 25°C)     | 1.5 max. (-40~+85°C)    | 50                               | 50                             | GSM         |
| <b>LDB21881M20C-001</b> | 881.5 ±12.5MHz        | 1.4 max. (at 25°C)     | 1.5 max. (-40~+85°C)    | 50                               | 200                            | GSM         |
| <b>LDB21942M05C-001</b> | 942.5 ±17.5MHz        | 1.4 max. (at 25°C)     | 1.5 max. (-40~+85°C)    | 50                               | 50                             | GSM         |
| <b>LDB21942M20C-001</b> | 942.5 ±17.5MHz        | 1.3 max. (at 25°C)     | 1.4 max. (-40~+85°C)    | 50                               | 200                            | GSM         |
| <b>LDM181G9310CC001</b> | 1932.5 ±222.5MHz      | 0.85 max. (at 25°C)    | 0.95 max. (-40~+85°C)   | 50                               | 100                            | UMTS        |
| <b>LDM181G9610TA007</b> | 1960 ±30MHz           | 0.55 max. (at 25°C)    | 0.60 max. (-40~+85°C)   | 50                               | 100                            | UMTS        |
| <b>LDM182G4505CC001</b> | 2450 ±50MHz           | 0.88 max. (at 25°C)    | 0.98 max. (-40~+85°C)   | 50                               | 50                             | WLAN/BT     |
| <b>LDM182G4505GC004</b> | 2450 ±50MHz           | 0.88 max. (at 25°C)    | 0.98 max. (-40~+85°C)   | 50                               | 50                             | WLAN/BT     |
| <b>LDM182G4510CC001</b> | 2450 ±50MHz           | 0.75 max. (at 25°C)    | 0.85 max. (-40~+85°C)   | 50                               | 100                            | WLAN/BT     |
| <b>LDM182G4510HC003</b> | 2450 ±50MHz           | 0.75 max. (at 25°C)    | 0.85 max. (-40~+85°C)   | 50                               | 100                            | WLAN/BT     |
| <b>LDM182G5005CC001</b> | 2500 ±200MHz          | 0.9 max. (at 25°C)     | 1.0 max. (-40~+85°C)    | 50                               | 50                             | WLAN/BT     |
| <b>LDM185G4210CC001</b> | 5425 ±525MHz          | 0.9 max. (at 25°C)     | 1.00 max. (-40~+85°C)   | 50                               | 100                            | WLAN        |

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| <a href="#">LDB182G4510C-110</a> | <a href="#">LDB213G6010C-001</a> | <a href="#">LDB21906M20C-001</a> | <a href="#">LDB32920M05D-463</a> | <a href="#">LDB312G4010C-418</a> |
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| <a href="#">LDB215G3710C-001</a> | <a href="#">LDB211G7010C-001</a> | <a href="#">LDB182G4520C-110</a> | <a href="#">LDB185G3710G-120</a> | <a href="#">LDB211G6610C-002</a> |
| <a href="#">LDB211G6020C-001</a> | <a href="#">LDB43461M20C-400</a> | <a href="#">LDB211G8120C-002</a> | <a href="#">LDB311G9010C-440</a> | <a href="#">LDB211G8020C-001</a> |
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| <a href="#">LDB21881M05C-001</a> | <a href="#">LDB311G8020C-300</a> | <a href="#">LDB212G5005C-001</a> | <a href="#">LDB311G6010C-300</a> | <a href="#">LDB311G6020C-300</a> |
| <a href="#">LDB212G1505C-001</a> | <a href="#">LDB212G1405C-001</a> | <a href="#">LDB212G1005C-001</a> | <a href="#">LDB215G5110C-001</a> | <a href="#">LDB311G5010C-300</a> |
| <a href="#">LDB311G9020C-300</a> | <a href="#">LDB311G7020C-300</a> | <a href="#">LDB311G7010C-300</a> | <a href="#">LDB215G2510C-001</a> | <a href="#">LDB21942M20C-001</a> |
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| <a href="#">LDB215G2520C001</a>  | <a href="#">LDB215G5105C001</a>  | <a href="#">LDB21869M10C001</a>  | <a href="#">LDB21869M15C001</a>  | <a href="#">LDB21869M20C001</a>  |