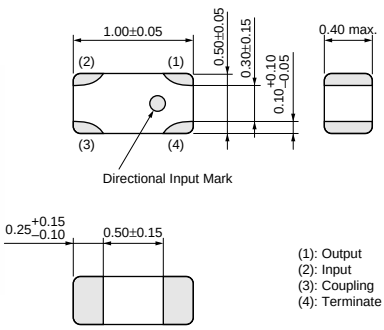
# Chip Multilayer Hybrid Couplers

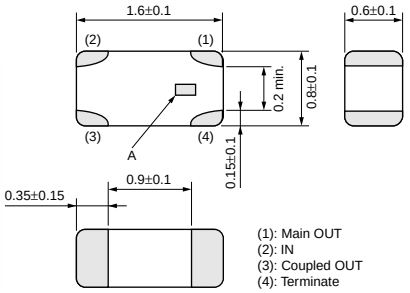
## Directional Coupler

LDC15 Series



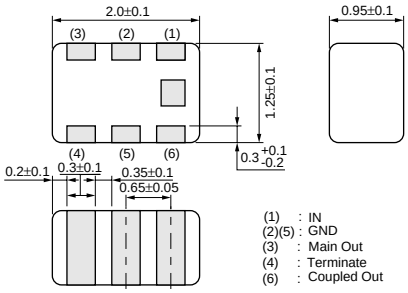

(in mm)

LDC18_Q Series




(in mm)

LDC21 Series




∗ All the technical data and information contained herein are subject to change without prior notice.

(in mm)

| Part Number | Frequency Range (MHz) | Coupling (dB) | Insertion Loss (dB) | Isolation (min.) (dB) | VSWR (max.) | Characteristic Impedance (Nom.) (ohm) | Power Capacity (W) | Application |
|---|---|---|---|---|---|---|---|---|
| **LDC15450M25Q-360** | 450 ±50MHz | 25.1 ±1.8dB | 0.15 max. (at 25°C) | 38.0 | 1.5 | - | 3 max. (50ohm Load) | CDMA450 |
| **LDC15707M21Q-360** | 707 ±9MHz | 21.1 ±1.0dB | 0.23 max. (at 25°C) | 35.0 | 1.4 | - | 3 max. (50ohm Load) | UMTS(Band12) |
| **LDC15836M30Q-392** | 836.5 ±12.5MHz | 30.6 ±1.0dB | 0.20 max. (at 25°C) | 38.0 | 1.4 | - | 3 max. (50ohm Load) | UMTS(Band5) |
| **LDC15874M27Q-359** | 874 ±51MHz | 27.2 ±1.0dB | 0.20 max. (at 25°C) | 42.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band5/8) |
| **LDC15897M26SB008** | 897.5 ±17.5MHz | 26.4 ±1.0dB | 0.15 max. (at 25°C) | - | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band8) |
| **LDC15906M19SB001** | 906.0 ±19.0MHz | 19.3 ±1.0dB | 0.22 max. (at 25°C) | - | 1.4 | 50 | 3 max. (50ohm Load) | CDMA |
| **LDC151G4418Q-352** | 1441 ±12MHz | 18.9 ±1.0dB | 0.23 max. (at 25°C) | 32.0 | 1.4 | 50 | 3 max. (50ohm Load) | WCDMA |
| **LDC151G7313Q-360** | 1732.5 ±22.5MHz | 13.6 ±1.0dB | 0.42 max. (at 25°C) | 24.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band4) |
| **LDC151G7424Q-392** | 1747 ±37.5MHz | 24.1 ±1.0dB | 0.20 max. (at 25°C) | 30.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band4) |
| **LDC151G7421Q-359** | 1747.5 ±37.5MHz | 21.2 ±1.0dB | 0.22 max. (at 25°C) | 35.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band3) |
| **LDC151G8117Q-352** | 1810 ±100MHz | 17.0 ±1.2dB | 0.25 max. (at 25°C) | 32.0 | 1.4 | 50 | 3 max. (50ohm Load) | GSM |
| **LDC151G8620Q-359** | 1865 ±115MHz | 20.5 ±1.0dB | 0.22 max. (at 25°C) | 34.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band2) |
| **LDC151G8824Q-393** | 1880 ±30MHz | 24.7 ±1.0dB | 0.20 max. (at 25°C) | 32.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band2) |

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Continued from the preceding page.

| Part Number | Frequency Range (MHz) | Coupling (dB) | Insertion Loss (dB) | Isolation (min.) (dB) | VSWR (max.) | Characteristic Impedance (Nom.) (ohm) | Power Capacity (W) | Application |
|---|---|---|---|---|---|---|---|---|
| **LDC151G9120Q-359** | 1915 ±65MHz | 20.4 ±1.0dB | 0.22 max. (at 25°C) | 34.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band1) |
| **LDC151G9523Q-392** | 1950 ±30MHz | 23.2 ±1.0dB | 0.20 max. (at 25°C) | 30.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band1) |
| **LDC152G1419Q-359** | 2140 ±30MHz | 19.4 ±1.0dB | 0.26 max. (at 25°C) | 33.0 | 1.5 | 50 | 3 max. (50ohm Load) | UMTS(Band1) |
| **LDC152G3518Q-359** | 2350 ±50MHz | 18.7 ±1.0dB | 0.28 max. (at 25°C) | 31.0 | 1.4 | 50 | 3 max. (50ohm Load) | WLAN |
| **LDC152G4518Q-359** | 2450 ±50MHz | 18.4 ±1.0dB | 0.29 max. (at 25°C) | 31.0 | 1.4 | 50 | 3 max. (50ohm Load) | WLAN |
| **LDC152G5318Q-359** | 2535 ±35MHz | 18.1 ±1.0dB | 0.30 max. (at 25°C) | 31.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band7) |
| **LDC18836M32Q-370** | 836.5 ±12.5MHz | 32.2 ±1.2dB | 0.17 max. (at 25°C) | 44.0 | 1.5 | 50 | 3 max. (50ohm Load) | UMTS(Band5) |
| **LDC18897M20Q-361** | 897.5 ±17.5MHz | 20.5 ±1.0dB | 0.22 max. (at 25°C) | 33.0 | 1.5 | 50 | 3 max. (50ohm Load) | UMTS(Band8) |
| **LDC181G7426Q-370** | 1747.5 ±37.5MHz | 26.0 ±1.2dB | 0.17 max. (at 25°C) | 49.0 | 1.5 | 50 | 3 max. (50ohm Load) | UMTS(Band4) |
| **LDC181G8825Q-370** | 1880.0 ±30.0MHz | 25.3 ±1.2dB | 0.22 max. (at 25°C) | 45.5 | 1.5 | 50 | 3 max. (50ohm Load) | UMTS(Band2) |
| **LDC181G9525Q-370** | 1950.0 ±30.0MHz | 25.0 ±1.2dB | 0.22 max. (at 25°C) | 44.0 | 1.5 | 50 | 3 max. (50ohm Load) | UMTS(Band1) |
| **LDC21836M20B-027** | 836.5 ±12.5MHz | 20.6 ±1.0dB | 0.15 max. (at 25°C) | 28.0 | 1.4 | 50 | 3 max. (50ohm Load) | CDMA |
| **LDC211G8820B-042** | 1880.0 ±30.0MHz | 20.0 ±1.0dB | 0.23 max. (at 25°C) | 26.0 | 1.4 | 50 | 3 max. (50ohm Load) | CDMA |
| **LDC211G9517B-031** | 1950.0 ±30.0MHz | 17.3 ±1.0dB | 0.27 max. (at 25°C) | 21.0 | 1.4 | 50 | 3 max. (50ohm Load) | UMTS(Band1) |

Operating Temperature Range: -40°C to +85°C



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