## Chip Multilayer Hybrid Couplers

### 3dB Hybrid

#### LDC31 Series
- **Dimensions (mm):**
  - L: 3.2 (±0.15)
  - W: 0.9 (±0.1)
  - H: 1.6 (±0.15)
- **Termination:**
- **Metrics:**
  - Insertion Loss: 0.55 (±0.15)
  - Return Loss: 0.45 (±0.15)
  - Isolation: 1.0 (±0.1)
- **Part Numbers:**
  - LDC311G6003B-601: Frequency Range 1500 to 1700 MHz, Insertion Loss 3.3 ±0.5dB, Isolation 20.0 (min.) dB

#### LDC32 Series
- **Dimensions (mm):**
  - L: 3.2 (±0.2)
  - W: 0.9 (±0.1)
  - H: 2.5 (±0.2)
- **Termination:**
- **Metrics:**
  - Insertion Loss: 0.55 (±0.15)
  - Return Loss: 0.45 (±0.15)
  - Isolation: 1.0 (±0.1)
- **Part Numbers:**
  - LDC32900M03B-703: Frequency Range 800 to 1000 MHz, Insertion Loss 3.3 ±0.5dB, Isolation 20.0 (min.) dB

#### LDC43 Series
- **Dimensions (mm):**
  - L: 4.5 (±0.3)
  - W: 1.2 (±0.2)
- **Termination:**
- **Metrics:**
  - Insertion Loss: 0.4 (min.) dB, 3.0 (max.) dB
  - Return Loss: 0.3 (min.) dB, 3.0 (max.) dB
  - Isolation: 20.0 (min.) dB, 1.5 (max.) dB
- **Part Numbers:**
  - LDC43850M03B-401: Frequency Range 750 to 950 MHz, Insertion Loss 3.0 ±0.6/-0.2dB, Isolation 20.0 (min.) dB

#### LDC55 Series
- **Dimensions (mm):**
  - L: 5.7 (±0.3)
- **Termination:**
- **Metrics:**
  - Insertion Loss: 0.4 (min.) dB, 3.0 (max.) dB
  - Return Loss: 0.3 (min.) dB, 3.0 (max.) dB
  - Isolation: 20.0 (min.) dB, 1.4 (max.) dB
- **Part Numbers:**
  - LDC55250M03B-200: Frequency Range 220 to 280 MHz, Insertion Loss 3.0 ±0.6/-0.2dB, Isolation 20.0 (min.) dB

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**Part Number | Frequency Range (MHz) | Insertion Loss (dB) | Amplitude Balance (max.) (dB) | Phase Deviation (°) | Isolation (min.) (dB) | VSWR (max.) | Power Capacity (W)**
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LDC31G6003B-601 | 1500 to 1700 | 3.3 ±0.5dB | 1.0 | 90 ±3.0° | 20.0 | 1.5 | 3 max. (50ohm Lead)
LDC32900M03B-703 | 800 to 1000 | 3.3 ±0.5dB | 1.0 | 90 ±3.0° | 20.0 | 1.5 | 3 max. (50ohm Lead)
LDC43850M03B-401 | 750 to 950 | 3.0 +0.6/-0.2dB | 0.8 | 90 ±3.0° | 20.0 | 1.4 | 3 max. (50ohm Lead)
LDC55250M03B-200 | 220 to 280 | 3.0 +0.6/-0.2dB | 0.8 | 90 ±3.0° | 20.0 | 1.4 | 3 max. (50ohm Lead)

**Characteristic Impedance:** 50ohm  
**Operating Temperature Range:** -25°C to +85°C

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*Note 06.5.15*