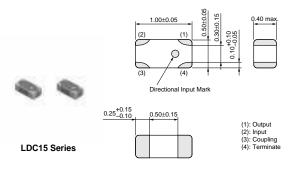
## muRata **Microwave Components**

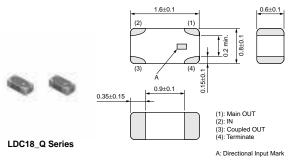
## **Chip Multilayer Hybrid Couplers**

**Directional Coupler** 

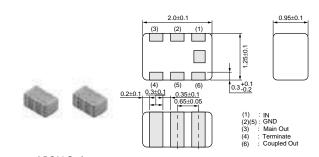


(in mm)

(in mm)



(in mm)





\* All the technical data and information contained herein are subject to change without prior notice

Frequency Insertion Isolation Characteristic Power VSWR Coupling Range (MHz) Loss (dB) (min.) (dB) Capacity (W) Part Number Impedance Application (dB) (max.) (Nom.) (ohm) 450 25.1 0.15 max. 3 max. LDC15450M25Q-360 38.0 1.5 CDMA450 ±50MHz ±1.8dB (at 25°C) (50ohm Load) 707 21.1 0.23 max. 3 max. LDC15707M21Q-360 35.0 1.4 UMTS(Band12) ±9MHz ±1.0dB (at 25°C) (50ohm Load) 836.5 30.6 0.20 max. 3 max. LDC15836M30Q-392 38.0 1.4 UMTS(Band5)  $\pm 12.5 MHz$ ±1.0dB (at 25°C) (50ohm Load) 874 27.2 3 max. 0.20 max. LDC15874M27Q-359 42.0 1.4 50 UMTS(Band5/8) ±51MHz ±1.0dB (at 25°C) (50ohm Load) 897.5 3 max. 26.4 0.15 max. LDC15897M26SB008 1.4 50 UMTS(Band8) ±17.5MHz ±1.0dB (at 25°C) (50ohm Load) 906.0 19.3 0.22 max 3 max. LDC15906M19SB001 50 CDMA 1.4 ±19.0MHz ±1.0dB (at 25°C) (50ohm Load) 1441 18.9 0.23 max. 3 max. LDC151G4418Q-352 WCDMA 32.0 50 1.4 ±12MHz ±1.0dB (at 25°C) (50ohm Load) 1732.5 13.6 0.42 max. 3 max. LDC151G7313Q-360 24.0 1.4 50 UMTS(Band4) ±22.5MHz ±1.0dB (at 25°C) (50ohm Load) 1747 24.1 0.20 max. 3 max. LDC151G7424Q-392 30.0 1.4 50 UMTS(Band4) ±37.5MHz ±1.0dB (at 25°C) (50ohm Load) 1747.5 21.2 0.22 max. 3 max. LDC151G7421Q-359 35.0 1.4 50 UMTS(Band3) +37 5MHz ±1.0dB (at 25°C) (50ohm Load) 1810 17.0 0.25 max. 3 max. LDC151G8117Q-352 32.0 1.4 50 GSM ±100MHz ±1.2dB (50ohm Load) (at 25°C) 1865 20.5 0.22 max. 3 max. LDC151G8620Q-359 34.0 1.4 50 UMTS(Band2) ±115MHz ±1.0dB (at 25°C) (50ohm Load) 1880 24.7 0.20 max. 3 max. LDC151G8824Q-393 32.0 1.4 50 UMTS(Band2) ±30MHz ±1.0dB (at 25°C) (50ohm Load)

Continued on the following page.

Microwave Components muRata

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

Microwave Components

10.12.17

ANote • This PDF catalog is downloaded from the website of Murata Manufacturing co., ltd. Therefore, it's specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.
• This PDF 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.