



**THE DATASHEET OF  
LFD31859MDP1A009**



# Chip Multilayer Diplexers

**LFD18\_DP Series**

DP3.5 Type  
 (1) Higher Frequency Port  
 (\*2) Common Port  
 (\*3) Lower Frequency Port

DP4.6 Type  
 (\*1) Lower Frequency Port  
 (\*2) Common Port  
 (\*3) Higher Frequency Port

All the technical data and information contained herein are subject to change without prior notice. (in mm)

**LFD18\_DPF Series**

(1): P2 (\*1)  
 (2)(4)(6): GND  
 (3): P1 (\*2)  
 (5): P3 (\*3)

(\*1) Lower Frequency Port  
 (\*2) Higher Frequency Port  
 (\*3) Common Port

All the technical data and information contained herein are subject to change without prior notice. (in mm)

**LFD18\_DPG Series**

(1): P2 (\*1)  
 (2)(4)(6): GND  
 (3): P1 (\*2)  
 (5): P3 (\*3)

(\*1) Higher Frequency Port  
 (\*2) Lower Frequency Port  
 (\*3) Common Port

All the technical data and information contained herein are subject to change without prior notice. (in mm)

**LFD21\_DP3 Series**

(1)(2)(3)(5)(7): GND  
 (4): P1(\*2)  
 (6): P3(\*3)  
 (8): P2(\*1)

(\*1) Lower Frequency Port  
 (\*2) Higher Frequency Port  
 (\*3) Common Port

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. (in mm)

**LFD21\_DP4 Series**

(1)(3)(5)(6)(7): GND  
 (2): P3(\*3)  
 (4): P2(\*2)  
 (8): P1(\*1)

(\*1) Lower Frequency Port  
 (\*2) Higher Frequency Port  
 (\*3) Common Port

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. (in mm)

**LFD21\_DPH Series**

(1): P2 (\*1)  
 (2)(4)(6): GND  
 (3): P1 (\*2)  
 (5): P3 (\*3)

(\*1) Lower Frequency Port  
 (\*2) Higher Frequency Port  
 (\*3) Common Port

All the technical data and information contained herein are subject to change without prior notice. (in mm)

**LFD21\_DP1 Series**

(1) : P2(\*1)  
 (2)(5)(7) : GND  
 (3) : P1(\*2)  
 (4)(8) : NC  
 (6) : P3(\*3)

(\*1) Lower Frequency Port  
 (\*2) Higher Frequency Port  
 (\*3) Common Port

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. (in mm)

**LFD21\_DP2 Series**

(1) : P2(\*2)  
 (2)(5)(7) : GND  
 (3) : P1(\*1)  
 (4)(8) : NC  
 (6) : P3(\*3)

(\*1) Lower Frequency Port  
 (\*2) Higher Frequency Port  
 (\*3) Common Port

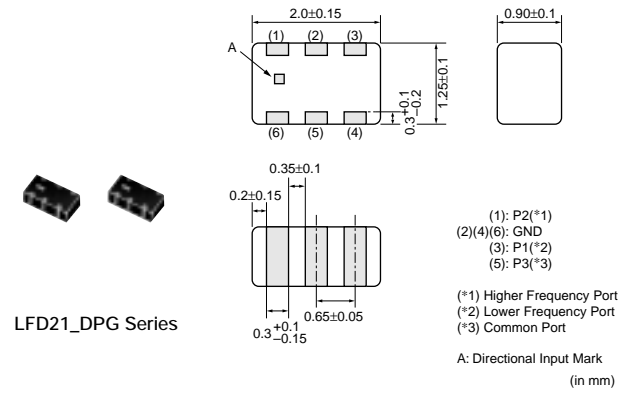
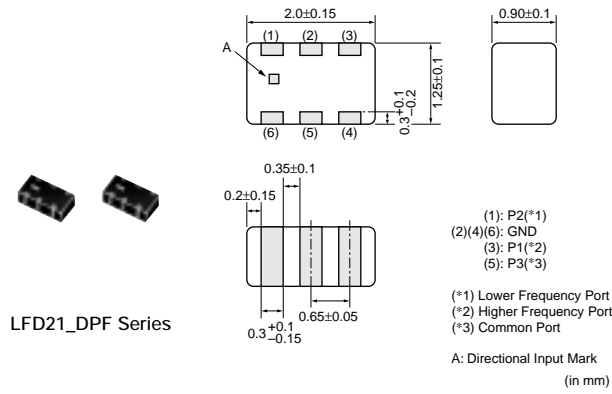
Terminal of "NC" should be fixed to the no connected pattern.

All the technical data and information contained herein are subject to change without prior notice. (in mm)

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Part Number	Frequency Range (f1) (MHz)	Frequency Range (f2) (MHz)	Insertion Loss (I) (P1-P3 in f1) (dB)	Insertion Loss (II) (P2-P3 in f1) (dB)	Attenuation [P1-P3](in f2) (dB)	Attenuation [P2-P3](in f1) (dB)
LFD181G57DP5B910	2450 ±50.0MHz	1575.5 ±1.5MHz	0.8 max. (at 25°C)	0.65 max. (at 25°C)	20 min.	20 min.
LFD181G57DP6B913	1575.5 ±1.5MHz	2450 ±50.0MHz	0.65 max. (at 25°C)	0.80 max. (at 25°C)	20 min.	20 min.
LFD181G57DPFC087	2450 ±50.0MHz	1575 ±3.0MHz	0.5 max. (at 25°C)	0.35 max. (at 25°C)	22 min.	13 min.
LFD181G57DPGC092	1575 ±3.0MHz	2450 ±50.0MHz	0.35 max. (at 25°C)	0.5 max. (at 25°C)	13 min.	22 min.
LFD182G45DP3A299	5375 ±475.0MHz	2450 ±50.0MHz	0.60 max. (at 25°C)	0.40 max. (at 25°C)	20 min.	20 min.
LFD182G45DP3B888	5375 ±475.0MHz	2450 ±50.0MHz	0.60 max. (at 25°C)	0.40 max. (at 25°C)	20 min.	20 min.
LFD182G45DP4B720	2450 ±50.0MHz	5375 ±475.0MHz	0.40 max. (at 25°C)	0.60 max. (at 25°C)	20 min.	20 min.
LFD182G45DP4B889	2450 ±50.0MHz	5375 ±475.0MHz	0.40 max. (at 25°C)	0.60 max. (at 25°C)	20 min.	20 min.
LFD212G45DP3A140	5250 ±100.0MHz	2450 ±50.0MHz	0.65 max. (at 25°C)	0.50 max. (at 25°C)	20 min.	20 min.
LFD212G45DP3A151	5487.5 ±337.5MHz	2450 ±50.0MHz	0.75 max. (at 25°C)	0.50 max. (at 25°C)	20 min.	16 min.
LFD212G45DP3A188	5375 ±475.0MHz	2450 ±50.0MHz	0.75 max. (at 25°C)	0.50 max. (at 25°C)	21 min.	17 min.
LFD212G45DP4A189	2450 ±50.0MHz	5375 ±475.0MHz	0.5 max. (at 25°C)	0.75 max. (at 25°C)	17 min.	21 min.
LFD21452MDPHC192	859.0 ±35.0MHz	452.5 ±41.5MHz	0.50 max. (at 25°C)	0.65 max. (at 25°C)	15 min.	17 min.
LFD21859MDP1A049	1920 ±70.0MHz	859 ±35.0MHz	0.45 max. (at 25°C)	0.40 max. (at 25°C)	19 min.	20 min.
LFD21859MDP2A076	859 ±35.0MHz	1920 ±70.0MHz	0.40 max. (at 25°C)	0.45 max. (at 25°C)	20 min.	19 min.
LFD21874MDP1A084	1575.5 ±3.0MHz	874 ±51.0MHz	0.60 max. (at 25°C)	0.55 max. (at 25°C)	25 min.	23 min.
LFD21874MDP2A181	874 ±51.0MHz	1575.5 ±3.0MHz	0.55 max. (at 25°C)	0.60 max. (at 25°C)	23 min.	25 min.
LFD21884MDP1A062	1906.5 ±13.0MHz	884 ±74.0MHz	0.45 max. (at 25°C)	0.50 max. (at 25°C)	20 min.	20 min.
LFD21892MDP1A141	1850 ±140.0MHz	892 ±68.0MHz	0.60 max. (at 25°C)	0.40 max. (at 25°C)	19 min.	17 min.
LFD21892MDP2B860	892 ±68.0MHz	1850 ±140.0MHz	0.40 max. (at 25°C)	0.60 max. (at 25°C)	17 min.	19 min.
LFD21892MDPFC065	1940 ±230.0MHz	892 ±68.0MHz	0.45 max. (at 25°C)	0.27 max. (at 25°C)	19 min.	13 min.
LFD21892MDPGC103	892 ±68.0MHz	1940 ±230.0MHz	0.27 max. (at 25°C)	0.45 max. (at 25°C)	13 min.	19 min.
LFD21920MDP1A048	1795 ±85.0MHz	920 ±40.0MHz	0.55 max. (at 25°C)	0.50 max. (at 25°C)	20 min.	16 min.

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