

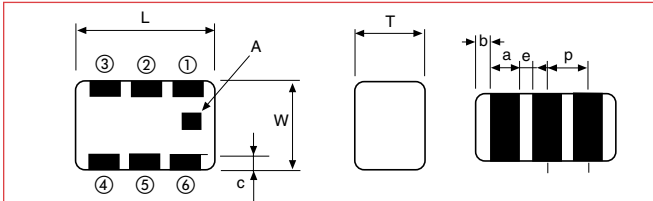


#### FEATURES

- Small size: see dimensions
- Light weight
- Tape and reel packaging
- Reflow solderable
- Available to cover a frequency range from 200MHz to 2.5GHz
- Coupling values 10dB, 14dB and others

#### LDC15H–Directional Coupler

##### DIMENSIONS: mm



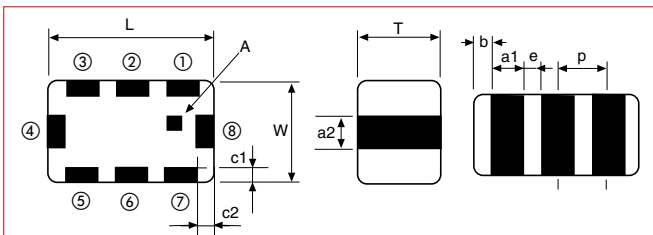
Code	Dimensions	Code	Dimensions	Code	Dimensions
L	2.0 ± 0.1	a	0.30 ± 0.1	e	0.35 ± 0.10
W	1.25 ± 0.10	b	0.2 ± 0.1	p	0.65 ± 0.05
T	0.95 ± 0.10	c	0.3 +0.1/-0.2	—	—

#### TERMINALS: LDC15H Type

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	IN	④	Terminate
②	GND	⑤	GND
③	Main Out	⑥	Coupled Out

#### LDC15D–Directional Coupler

##### DIMENSIONS: mm



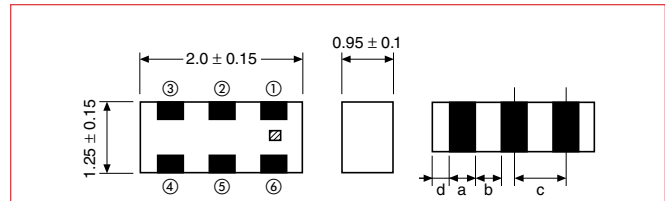
Code	Dimensions	Code	Dimensions	Code	Dimensions
L	2.00 ± 0.10	a2	0.3 +0.1/-0.15	e	0.35 ± 0.10
W	1.25 ± 0.10	b	0.20 ± 0.10	p	0.65 ± 0.05
T	0.95 ± 0.10	c1	0.3 +0.1/-0.2	—	—
a1	0.3 +0.1/-0.15	c2	0.3 +0.1/-0.2	—	—

#### TERMINALS: LDC15D Type

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	Band 1 IN	⑤	Band 2 OUT
②	GND	⑥	GND
③	Band 2 IN	⑦	Band 1 OUT
④	Termination	⑧	Coupling OUT

#### LDC15B–Directional Coupler

##### DIMENSIONS: mm

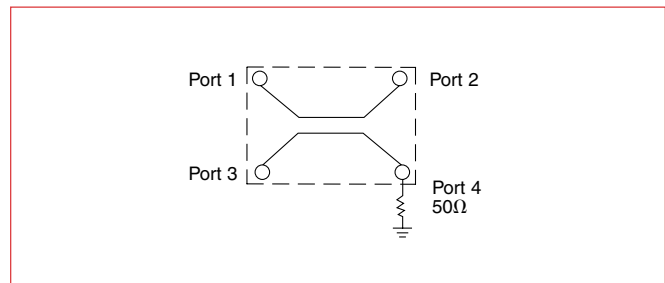


Code	Dimensions	Code	Dimensions
a	0.35 ± 0.15	c	0.65 ± 0.15
b	0.30 ± 0.15	d	0.15 ± 0.15

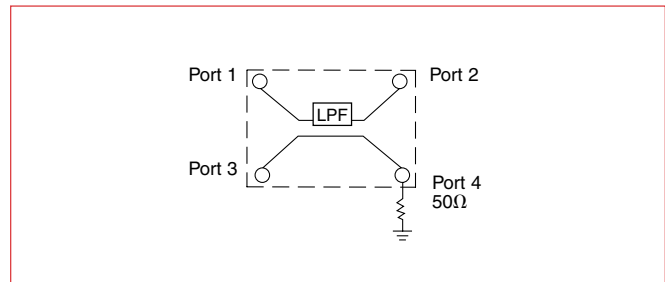
#### TERMINALS: LDC15B Type

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	IN	④	Terminate
②	GND	⑤	GND
③	Main Out	⑥	Coupled Out

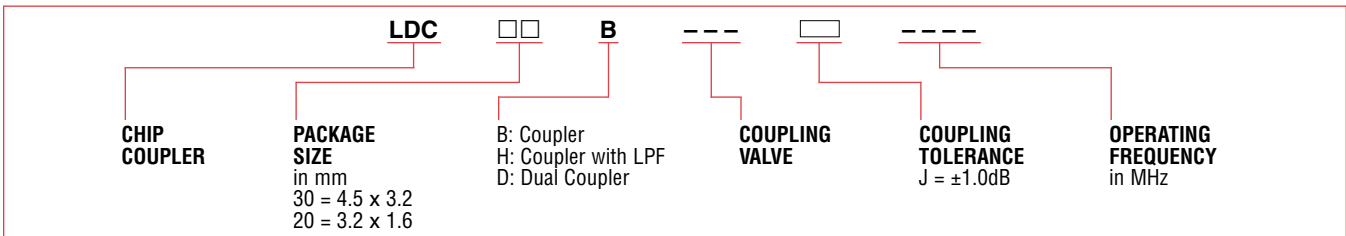
#### LDC15B



#### LDC15H



#### PART NUMBERING SYSTEM



**DIRECTIONAL COUPLER with LOW PASS FILTER SPECIFICATIONS (-40 to +85°C)  
LDC15H SERIES**

Part Number	Frequency Range (MHz)	Insertion Loss (dB max.)	Coupling (dB)	Isolation (dB min.)	VSWR (max.)	Power Capacity (W) (50Ω load)	Attenuation at 2 x f <sub>0</sub> (dB min.)	Attenuation at 3 x f <sub>0</sub> (dB min.)
LDC15H100L1747	1747.5 ± 37.5	1.00	10.0 ± 1.5	21	1.5	1	22	15
LDC15H140J1747	1747.5 ± 37.5	0.90	14.0 ± 1.0	22	2.0	1	24	19
LDC15H140J1880	1880.0 ± 30.0	0.68	14.0 ± 1.0	25	1.5	1	25	20
LDC15H140K0897	897.0 ± 17.5	0.63	14.2 ± 1.2	25	1.5	3	20	13
LDC15H200J0836	836.5 ± 12.5	0.48	20.0 ± 1.0	29	1.4	3	24	15
LDC15H200J0897	897.0 ± 17.5	0.48	20.0 ± 1.0	29	1.4	3	22	14
LDC15H200J1747	1747.5 ± 37.5	0.48	20.0 ± 1.0	29	1.4	1	22	17
LDC15H200J1880	1880.0 ± 30.0	0.48	20.0 ± 1.0	29	1.5	1	25	20
LDC15H200J1920	1920 ± 10.0	0.48	20.0 ± 1.0	30	1.4	1	25	20
LDC15H200J2450	2450 ± 50.0	0.35	20.0 ± 1.0	29	1.5	1	25	19

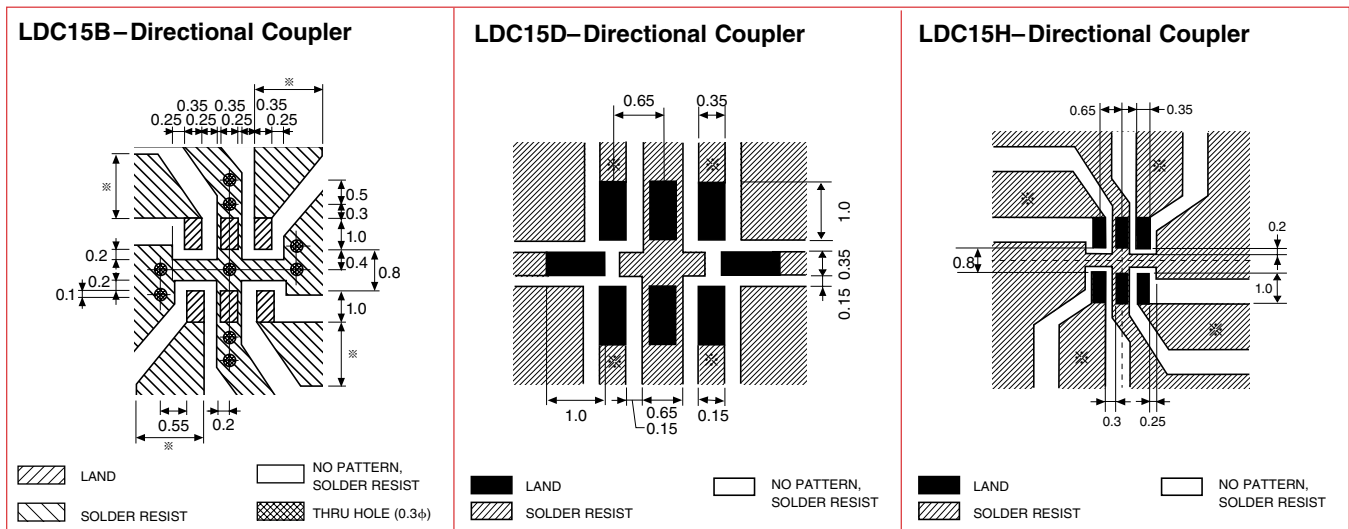
This is a limited list. Other frequencies and other coupling values available.

**DIRECTIONAL COUPLER SPECIFICATIONS (-40 to +85°C)  
LDC15B/15D SERIES**

Part Number	Frequency Range (MHz)	Insertion Loss (dB max.)	Coupling (dB)	Isolation (dB min.)	VSWR (max.)	Power Capacity (W) (50Ω load)
LDC15B200J1880	1880.0 ± 30.0	0.27	20.0 ± 1.0	26	1.4	1
LDC15B200J0836	836.5 ± 12.5	0.17	20.6 ± 1.0	28	1.4	3
LDC15B200J0836	836.5 ± 12.5	0.18	20.6 ± 1.0	29.5	1.4	3
LDC15B200J0897	897.5 ± 17.5	0.2	20.0 ± 1.0	29	1.4	3
LDC15B200J0815	815.0 ± 10.0	0.17	20.9 ± 1.0	28	1.4	3
LDC15B170J1950	1950.0 ± 30.0	0.31	17.3 ± 1.0	21	1.4	1
LDC15B170J1880	1880.0 ± 30.0	0.29	17.4 ± 1.0	22	1.4	1
LDC15B170J1441	1441.0 ± 12.0	0.28	17.6 ± 1.0	25.5	1.4	1
LDC15B140J1880	1880.0 ± 30.0	0.37	14.2 ± 1.0	22.5	1.4	3
LDC15B140J1880	1880 ± 30	0.33	14.4 ± 1.0	24.5	1.4	1
LDC15B140J1907	1907 ± 12.5	0.33	14.3 ± 1.0	24	1.4	1
LDC15B140J1747	1747.5 ± 37.5	0.34	14.7 ± 1.0	23.5	1.4	1
LDC15B140J0836	836.5 ± 12.5	0.40	14.7 ± 1.0	24	1.4	3
LDC15B140J1960	1960 ± 30	0.33	14.2 ± 1.0	24	1.4	1
LDC15B120J1747	1747.5 ± 37.5	0.54	12.8 ± 1.0	20.3	1.4	1
LDC15B120J1880	1880.0 ± 30.0	0.58	12.2 ± 1.0	19.5	1.4	1
LDC15B120J2450	2450 ± 50	0.41	12.6 ± 1.0	21	1.4	1
LDC15D140A0001A	897.5 ± 17.5	0.48	14.0 ± 1.0	See Specification	1.5	3.2
	1747.5 ± 37.5	0.48				1.5
LDC15D180A0004A	897.5 ± 17.5	0.41	18.0 ± 1.0	See Specification	1.6	3.2
	1747.5 ± 37.5	0.41				1.5
LDC15D190A0008	897.5 ± 17.5	0.38	19.0 ± 1.0	See Specification	1.6	3.2
	1747.5 ± 37.5	0.38				1.5

This is a limited list. Other frequencies and other coupling values available.

**DIMENSIONS: mm**



\*Line width to be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.