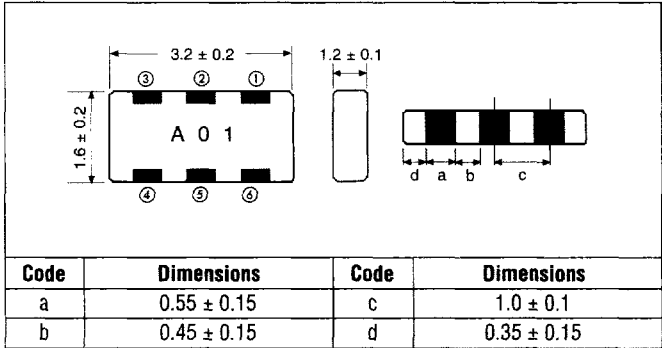




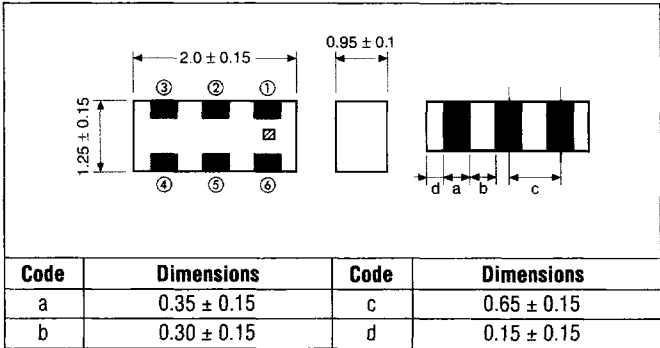
FEATURES

- 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

LDC20H—Directional Coupler
DIMENSIONS: mm



LDC15B—Directional Coupler
DIMENSIONS: mm



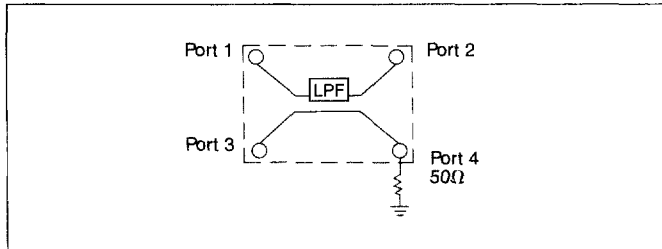
TERMINALS: LDC20H Type

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	Port 1 (IN)	④	Port 4 (50Ω to GND)
②	GROUND	⑤	GROUND
③	Port 2 (OUT) Through Port	⑥	Port 3 (Coupled Port)

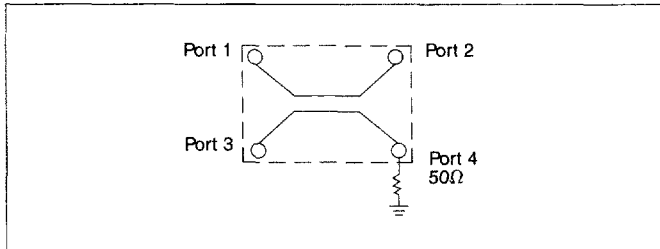
TERMINALS: LDC15B Type

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

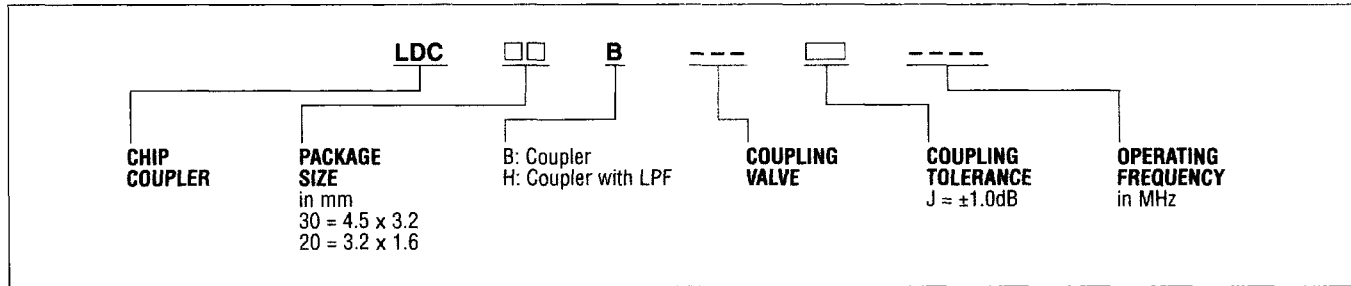
LDC20H



LDC15B



PART NUMBERING SYSTEM



DIRECTIONAL COUPLER with LOW PASS FILTER SPECIFICATIONS (−40 to +85°C) LDC20H 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 ₀ (dB min.)	Attenuation at 3 x f ₀ (dB min.)
LDC20H200J0836	836.5 ± 12.5	0.5	20.0 ± 1.0	29	1.4	3	26	16
LDC20H140J0836	836.5 ± 12.5	0.65	14.0 ± 1.0	23	1.4	3	24	14
LDC20H140J0881	881.5 ± 12.5	0.65	14.0 ± 1.0	25	1.4	3	26	16
LDC20H140J0897	897.5 ± 17.5	0.65	14.0 ± 1.0	23	1.4	3	24	14
LDC20H160J1747	1747.5 ± 37.5	0.6	16.0 ± 1.0	26	1.6	3	25	20
LDC20H160J1880	1880 ± 30	0.6	16.0 ± 1.0	26	1.6	3	25	20
LDC20H140J1880	1880 ± 30	0.7	14.0 ± 1.0	25	1.6	3	25	20
LDC20H170J1890	1890 ± 10	0.6	17.3 ± 1.0	25	1.7	3	23	20
LDC20H170J1907	1907.5 ± 12.5	0.6	17.5 ± 1.0	25	1.7	3	23	20
LDC20H140J1920	1920 ± 20	0.6	17.5 ± 1.0	25	1.7	3	23	20
LDC20H140J1960	1960 ± 30	0.6	14.0 ± 1.0	25	1.7	3	25	20

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

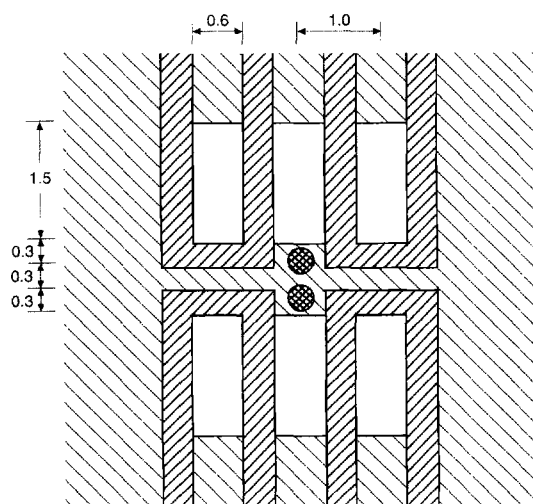
DIRECTIONAL COUPLER SPECIFICATIONS (−40 to +85°C) LDC15B SERIES

Part Number	Frequency Range (MHz)	Insertion Loss (dB max.)	Coupling (dB)	Isolation (dB min.)	VSWR (max.)	Power Capacity (W) (50Ω load)
LDC15B200J0836	836.5 ± 12.5	0.18	20.6 ± 1.0	29.5	1.4	3
LDC15B200J0881	881.5 ± 12.5	0.2	20.2 ± 1.0	29	1.4	3
LDC15B200J0897	897.5 ± 17.5	0.2	20.0 ± 1.0	29	1.4	3
LDC15B190J0950	950 ± 10	0.2	19.5 ± 1.0	28.5	1.4	3
LDC15B160J1441	1441 ± 12	0.27	16.3 ± 1.0	26	1.4	1
LDC15B150J1747	1747.5 ± 37.5	0.31	15.0 ± 1.0	24.5	1.4	1
LDC15B140J1880	1880 ± 30	0.33	14.4 ± 1.0	24.5	1.4	1
LDC15B140J1890	1890 ± 10	0.33	14.4 ± 1.0	24	1.4	1
LDC15B140J1907	1907 ± 12.5	0.33	14.3 ± 1.0	24	1.4	1
LDC15B140J1920	1920 ± 10	0.33	14.3 ± 1.0	24	1.4	1
LDC15B140J1960	1960 ± 30	0.33	14.2 ± 1.0	24	1.4	1
LDC15B120J2450	2450 ± 50	0.41	12.6 ± 1.0	21	1.4	1

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

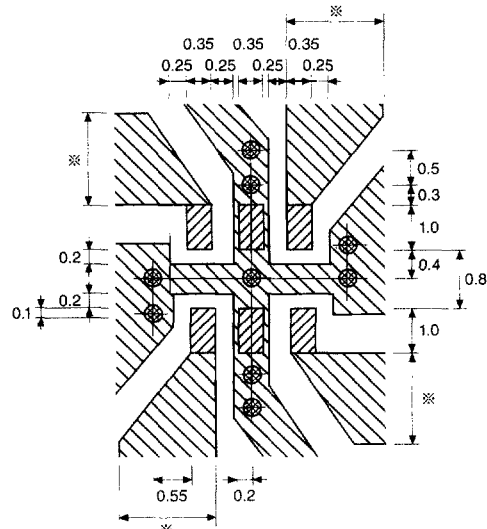
DIMENSIONS: mm

LDC20H—Directional Coupler



□ LAND
 ▨ SOLDER RESIST
 ▩ NO PATTERN, SOLDER RESIST
 ⊞ THRU HOLE

LDC15B—Directional Coupler



□ LAND
 ▨ SOLDER RESIST
 ▩ NO PATTERN, SOLDER RESIST
 ⊞ THRU HOLE (0.3φ)

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