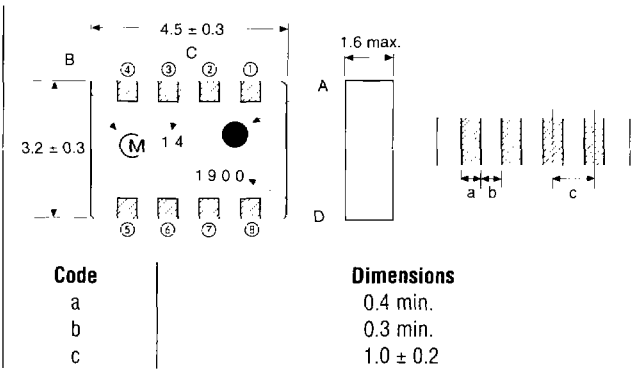




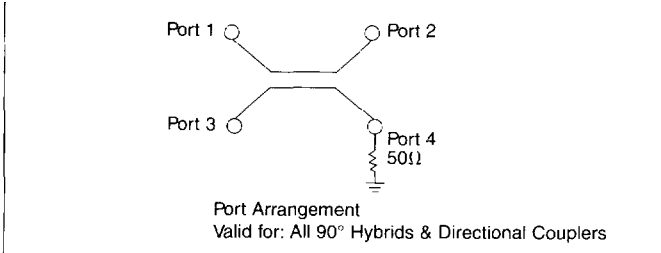
FEATURES

- Small size: see dimensions
- Light weight
- Tape and reel packaging
- Reflow solderable
- Available to cover a frequency range from 800MHz to 2.5GHz
- Coupling values 10dB, 14dB and others

LDC 30 – Directional Coupler
DIMENSIONS: mm



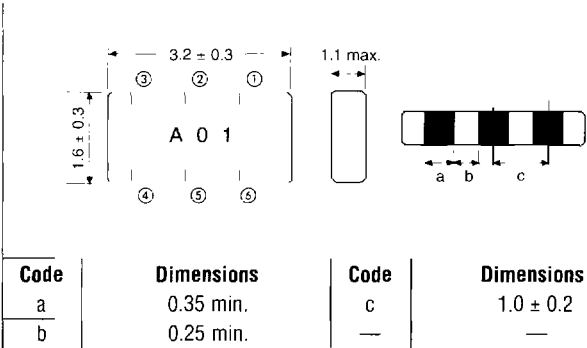
Weight ≈ .09g



MARKING: LDC 30 – Directional Coupler

Mark	Description
A	Directional Input Mark
B	Manufacturer's Name Code
C	Coupling Value
D	Center Frequency (unit: MHz)

LDC 20 – Directional Coupler
DIMENSIONS: mm



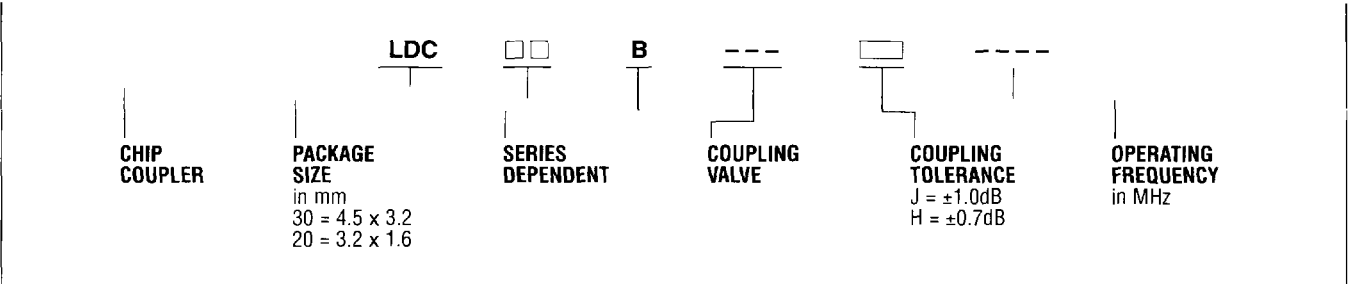
TERMINALS: LDC 30 – Directional Coupler

Terminal No.	Terminal Name	Terminal No.	Terminal Name
①	Port 1 (IN)	⑤	Port 4 (50Ω to GND)
②	GND	⑥	GND
③	GND	⑦	GND
④	Port 2 (OUT) Through Port	⑧	Port 3 (Coupled Port)

TERMINALS: LDC 20 Type

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

PART NUMBERING SYSTEM



MONOLITHIC DEVICES

DIRECTIONAL COUPLER SPECIFICATIONS

P/N	Frequency Range (MHz)	Coupling (dB)	25°C	IL -30 ~ +85°C	Isolation (dB min.)	VSWR (max.)
LMR						
LDC30B150J0815	815.0 ± 10.0	15.8 ± 1.0	0.35dB max.	0.40dB max.	26	1.3
LDC30B200J0815		20.8 ± 1.0	0.20dB max.	0.25dB max.	36	
LDC20B200H0815		20.8 ± 0.7	0.15dB max.	0.20dB max.	29.5	
EAMPS/ADC						
LDC30B150J0836	836.5 ± 12.5	15.6 ± 1.0	0.35dB max.	0.40dB max.	26	1.3
LDC30B200J0836		20.6 ± 1.0	0.20dB max.	0.25dB max.	36	
LDC20B200H0836		20.8 ± 0.7	0.15dB max.	0.20dB max.	29.5	
CT-2						
LDC30B150J0866	866.0 ± 2.0	15.4 ± 1.0	0.35dB max.	0.40dB max.	26	1.3
LDC30B200J0866		20.4 ± 1.0	0.20dB max.	0.25dB max.	36	
LDC20B200H0866		20.4 ± 0.7	0.15dB max.	0.20dB max.	29.5	
ETACS						
LDC30B150J0888	888.5 ± 16.5	15.2 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B200J0888		20.2 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B200H0888		20.2 ± 0.7	0.15dB max.	0.20dB max.	29.5	
EGSM						
LDC30B150J0897	897.5 ± 17.5	15.0 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B200J0897		20.0 ± 1.0	0.20dB max.	0.25dB max.	30	
LDC20B200H0897		20.2 ± 0.7	0.15dB max.	0.20dB max.	28	
GSM/NMT 900						
LDC30B150J0902	902.5 ± 12.5	15.0 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B200J0902		20.0 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B200H0902		20.0 ± 0.7	0.15dB max.	0.20dB max.	29.5	
NTACS						
LDC30B140J0911	911.5 ± 13.5	14.8 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0911		19.8 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B200H0911		20.0 ± 0.7	0.15dB max.	0.20dB max.	29.5	
CT-1 40						
LDC30B140J0914	914.5 ± 0.5	14.8 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0914		19.8 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B200H0914		20.0 ± 0.7	0.15dB max.	0.20dB max.	29.5	
ISM 915						
LDC30B140J0915	915.0 ± 13.0	14.8 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0915		19.8 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B200H0915		20.0 ± 0.7	0.15dB max.	0.20dB max.	28	
ISM 2.4						
LDC30B130J2450	2450.0 ± 50.0	13.6 ± 1.0	0.50dB max.	0.55dB max.	27	1.3
LDC30B180J2450		18.6 ± 1.0	0.40dB max.	0.45dB max.	26	
LDC20B120J2450		12.2 ± 1.0	0.50dB max.	0.55dB max.	22	
CT-1 80						
LDC30B140J0931	931.0 ± 1.0	14.6 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0931		19.6 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B190H0931		19.8 ± 0.7	0.15dB max.	0.20dB max.	28	
IDO						
LDC30B140J0920	920.0 ± 5.0	14.8 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0920		19.8 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B190H0920		19.8 ± 0.7	0.15dB max.	0.20dB max.	28	
IDO/NTT						
LDC30B140J0927	927.5 ± 12.5	14.8 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0927		19.8 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B190H0927		19.8 ± 0.7	0.15dB max.	0.20dB max.	28	
NTT						
LDC30B140J0933	933.5 ± 8.5	14.6 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0933		19.6 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B190H0933		19.7 ± 0.7	0.15dB max.	0.20dB max.	28	
PDC 800						
LDC30B140J0950	950.0 ± 10.0	14.4 ± 1.0	0.35dB max.	0.40dB max.	25	1.3
LDC30B190J0950		19.4 ± 1.0	0.20dB max.	0.25dB max.	35	
LDC20B190H0950		19.6 ± 0.7	0.15dB max.	0.20dB max.	28	
PDC 1.5						
LDC30B110J1441	1441.0 ± 12.0	11.8 ± 1.0	0.60dB max.	0.65dB max.	23	1.3
LDC30B160J1441		16.6 ± 1.0	0.30dB max.	0.35dB max.	32	
LDC30B200J1441		20.8 ± 1.0	0.25dB max.	0.30dB max.	36	
LDC20B160H1441		16.1 ± 0.7	0.25dB max.	0.30dB max.	25.5	

Note: All directional couplers have 3.0 Watt power rating.

Note: All directional couplers and hybrids have 50 ohm nominal characteristic impedance.

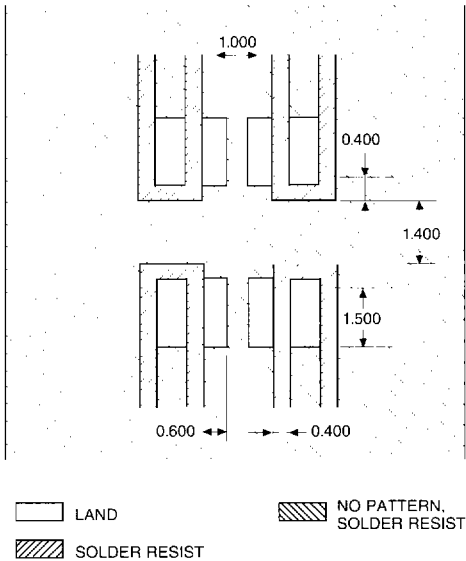
DIRECTIONAL COUPLER SPECIFICATIONS

P/N	Frequency Range (MHz)	Coupling (dB)	25°C	IL	-30 ~ +85°C	Isolation (dB min.)	VSWR (max.)
PCS							
LDC30B100J1880	1880.0 ± 30.0	10.4 ± 1.0	0.75dB max.		0.80dB max.	22	1.3
LDC30B140J1880		14.8 ± 1.0	0.40dB max.		0.45dB max.	30	
LDC30B190J1880		19.2 ± 1.0	0.30dB max.		0.35dB max.	35	
LDC20B140J1880		14.0 ± 1.0	0.35dB max.		0.40dB max.	23.5	
LDC30B100J1920	1920.0 ± 20.0	10.4 ± 1.0	0.70dB max.		0.75dB max.	22	
LDC30B140J1920		14.8 ± 1.0	0.35dB max.		0.40dB max.	30	
LDC30B190J1920		19.2 ± 1.0	0.25dB max.		0.30dB max.	35	
LDC20B140H1920		14.0 ± 0.7	0.35dB max.		0.40dB max.	23	
LDC30B100J1960	1960.0 ± 30	10.2 ± 1.0	0.70dB max.		0.75dB max.	22	
LDC30B140J1960		14.8 ± 1.0	0.35dB max.		0.40dB max.	30	
LDC30B190J1960		19.0 ± 1.0	0.25dB max.		0.30dB max.	35	
PCN							
LDC30B100J1747	1747.5 ± 37.5	10.8 ± 1.0	0.65dB max.		0.70dB max.	23	1.3
LDC30B150J1747		15.4 ± 1.0	0.35dB max.		0.40dB max.	32	
LDC30B190J1747		19.6 ± 1.0	0.25dB max.		0.30dB max.	36	
LDC20B140J1747		14.6 ± 1.0	0.30dB max.		0.35dB max.	23.5	
DECT							
LDC30B100J1890	1890.0 ± 10.0	10.4 ± 1.0	0.70dB max.		0.75dB max.	22	1.3
LDC30B140J1890		14.8 ± 1.0	0.35dB max.		0.40dB max.	30	
LDC30B190J1890		19.2 ± 1.0	0.25dB max.		0.30dB max.	35	
LDC20B140H1890		14.0 ± 0.7	0.35dB max.		0.40dB max.	23.5	
PHP							
LDC30B100J1907	1907.5 ± 12.5	10.4 ± 1.0	0.70dB max.		0.75dB max.	22	1.3
LDC30B140J1907		14.8 ± 1.0	0.35dB max.		0.40dB max.	30	
LDC30B190J1907		19.2 ± 1.0	0.25dB max.		0.30dB max.	35	
LDC20B140H1907		14.0 ± 0.7	0.35dB max.		0.40dB max.	23.5	

Note. All directional couplers have 3.0 Watt power rating.
Note. All directional couplers and hybrids have 50 ohm nominal characteristic impedance.

DIMENSIONS: mm

LDC 30 – Directional Coupler



LDC 20 – Directional Coupler

