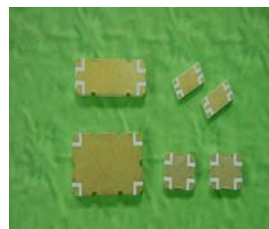


# Directional Couplers

## Features

- Excellent Ceramic Solution (LTCC Technology)
- Lower Loss, High Reliability (High Power Handling)
- Various Packing size (according to Power Watt)
- Cost effectiveness
- ROHs-6 Compliance
- Lead Free Alloy Solder (Sn/Ag/Cu of 96.5/3.0/5)
- Surface Mounted



## Applications

- DMB, NMS, GSM, CDMA, GPS, DCS, PCS, 3G, HSPDA, Wibro/WiMax

## Part Number Systems

**MDCP - 890 - B - 10 - LF**

(1) (2) (3) (4) (5)

(1)	Product series	(2)	Center Frequency (MHz)
(3)	Dimension Code ( L x W)	(4)	Coupling Magnitude (dB)
(5)	ROHs Compliant		

## Dimensions

Unit: mm

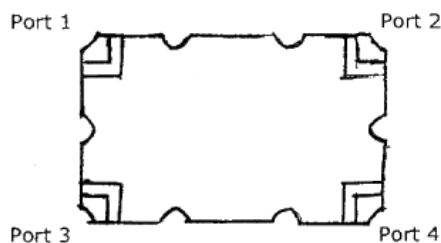
Code	Dimension	
	L	W
B	25.4	12.7
M	14.2	8.9
S	14.2	5.08
Q	6.35	5.08

# Directional Couplers

MDCP-Series				ELECTRICAL CHARACTERISTICS			
Part Number	Frequency Range (MHz)	Coupling (dB)	Directivity (dB)	I.L (dB) (typical)	VSWR	Average Power (Watt/CW)	Dimension (mm)
MDCP 200B10	180~210	10 ± 1	18	0.2	1.2	200	25.4 x 12.7 x 1.9
MDCP 890B10	815~960	10 ± 1	20	0.10	1.2	300	25.4 x 12.7 x 2.5
MDCP 890B20	815~960	20 ± 1	17	0.10	1.2	300	25.4 x 12.7 x 2.5
MDCP 890M10	815~960	10 ± 1	20	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 890M20	815~960	20.5 ± 1.5	20	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 890M30	815~960	30 ± 1.5	18	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 890Q10	815~960	10 ± 1	15	0.3	1.3	80	6.35 x 5.08 x 1.0
MDCP 1500M10	1000~2000	10 ± 1	18	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 1850M10	1700~2000	10 ± 1	20	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 1850S10	1700~2000	10 ± 1	20	0.12	1.2	100	14.2 x 5.08 x 1.9
MDCP 1850Q10	1700~2000	10 ± 1	20	0.15	1.2	80	6.35 x 5.08 x 1.0
MDCP 2150M10	1900~2300	10 ± 1	20	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 2150M30	1900~2300	30 ± 1.5	18	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 2150S10	1900~2300	10 ± 1	20	0.12	1.2	100	14.2 x 5.08 x 1.9
MDCP 2150Q10	1900~2300	10 ± 1	20	0.15	1.2	80	6.35 x 5.08 x 1.0
MDCP 2300M10	2200~2400	10 ± 1	20	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 2300S10	2200~2400	10 ± 1	20	0.12	1.2	100	14.2 x 5.08 x 1.9
MDCP 2300Q10	2200~2400	10 ± 1	20	0.15	1.2	80	6.35 x 5.08 x 1.0
MDCP 2650M10	2400~2800	10 ± 1	20	0.12	1.2	200	14.2 x 8.9 x 1.9
MDCP 2650S10	2400~2800	10 ± 1	20	0.12	1.2	100	14.2 x 5.08 x 1.9
MDCP 2650Q10	2400~2800	10 ± 1	20	0.15	1.2	80	6.35 x 5.08 x 1.0
MDCP 3500Q10	3300~3700	10 ± 1	20	0.15	1.2	80	6.35 x 5.08 x 1.5

\* All specifications are subjected to change without prior notice.

## Pin Configuration



Hybrid Coupler	
Port 1	Input
Port 2	Transmission
Port 3	Coupled
Port 4	Isolated