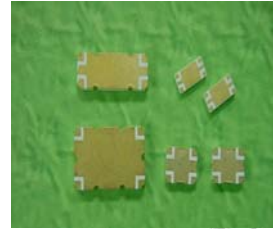


3dB Hybrid Couplers

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

M3CP - 890 - M - 03 - LF

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

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

Dimensions

Unit: mm

Code	Dimension	
	L	W
B	25.4	12.7
D	16.5	12.2
M	14.2	8.9
S	14.2	5.08
Q	6.35	5.08
C	6.0	3.0

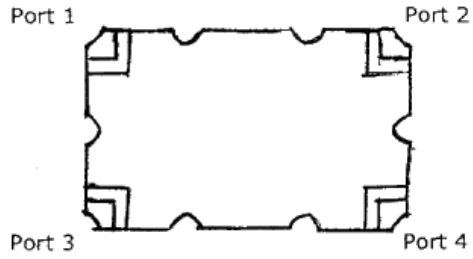
3dB Hybrid Couplers

M3CP-Series				ELECTRICAL CHARACTERISTICS			
Part Number	Frequency Range (MHz)	Amp (dB)	Isolated (dB)	I.L (dB) (typical)	VSWR	Average Power (Watt/CW)	Dimension (mm)
M3CP 200B03	180~210	±0.3	20	0.2	1.2	200	25.4 x 12.7 x 1.9
M3CP 450D03	380~520	±0.3	20	0.15	1.2	200	16.5 x 12.2 x 1.7
M3CP 750M03	650~800	±0.3	23	0.12	1.2	200	14.2 x 8.9 x 1.9
M3CP 890B03	815~960	±0.3	21	0.10	1.2	300	25.4 x 12.7 x 2.5
M3CP 890D03	815~960	±0.3	21	0.10	1.2	200	16.5 x 12.2 x 2.5
M3CP 890M03	815~960	±0.3	23	0.12	1.2	200	14.2 x 8.9 x 1.9
M3CP 890S03	815~960	±0.3	20	0.15	1.2	200	14.2 x 5.08 x 1.7
M3CP 890Q03	815~960	±0.3	18	0.25	1.2	80	6.35 x 5.08 x 1.9
M3CP 1400G03	1100~1700	±0.3	20	0.2	1.2	200	14.2 x 8.9 x 1.9
M3CP 1500G03	1000~2000	±0.5	18	0.15	1.3	200	14.2 x 8.9 x 1.9
M3CP 1850B03	1700~2000	±0.3	21	0.10	1.2	300	25.4 x 12.7 x 2.5
M3CP 1850M03	1700~2000	±0.3	23	0.12	1.2	200	14.2 x 8.9 x 1.9
M3CP 1850S03	1700~2000	±0.3	23	0.12	1.2	100	14.2 x 5.08 x 1.9
M3CP 1850Q03	1700~2000	±0.3	20	0.15	1.2	80	6.35 x 5.08 x 1.5
M3CP 2150B03	1900~2300	±0.3	21	0.10	1.2	300	25.4 x 12.7 x 2.5
M3CP 2150M03	1900~2300	±0.3	23	0.12	1.2	200	14.2 x 8.9 x 1.9
M3CP 2150S03	1900~2300	±0.3	23	0.15	1.2	100	14.2 x 5.08 x 1.9
M3CP 2150Q03	1900~2300	±0.3	20	0.15	1.2	80	6.35 x 5.08 x 1.5
M3CP 2300B03	2200~2400	±0.3	21	0.10	1.2	300	25.4 x 12.7 x 2.5
M3CP 2300M03	2200~2400	±0.3	23	0.12	1.2	200	14.2 x 8.9 x 1.9
M3CP 2300S03	2200~2400	±0.3	23	0.12	1.2	100	14.2 x 5.08 x 1.9
M3CP 2300Q03	2200~2400	±0.3	20	0.15	1.2	80	6.35 x 5.08 x 1.5
M3CP 2650B03	2400~2800	±0.3	21	0.10	1.2	300	25.4 x 12.7 x 2.5
M3CP 2650M03	2400~2800	±0.3	23	0.12	1.2	200	14.2 x 8.9 x 1.9
M3CP 2650S03	2400~2800	±0.3	23	0.12	1.2	100	14.2 x 5.08 x 1.9
M3CP 2650Q03	2400~2800	±0.3	20	0.15	1.2	80	6.35 x 5.08 x 1.5
M3CP 3500M03	3400~3600	±0.3	23	0.12	1.2	200	14.2 x 8.9 x 1.9
M3CP 3500Q03	3300~3700	±0.3	20	0.15	1.2	80	6.35 x 5.08 x 1.5
M3CP 2150C03	2100~2400	±0.25	18	0.5	1.2	10	6.0 x 3.0 x 1.1
M3CP 2600C03	2500~2700	±0.25	18	0.5	1.2	10	6.0 x 3.0 x 1.1

* All specifications are subjected to change without prior notice.

3dB Hybrid Couplers

Pin Configuration



Hybird Coupler		Directional Coupler	
Port 1	Input	Port 1	Input
Port 2	Isolated	Port 2	Output
Port 3	-3dB, 0°	Port 3	Coupled
Port 4	-3dB, -90°	Port 4	Isolated