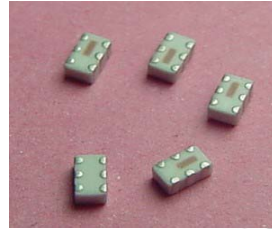


Multilayer Chip Couplers

Features

- Monolithic SMD with small, low-profile and Light-weight type.



Applications

- 0.8-6 GHz wireless communication systems, including DECT/PACS/PHS/GSM/DCS/PCS phones, WLAN card Bluetooth modules, etc.

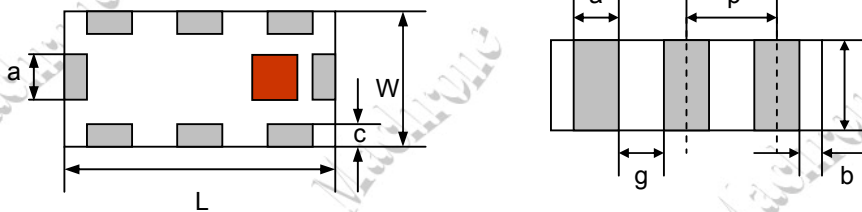
Part Number Systems

MCP - 2012 - 20 - A - 1747 - LF

(1) (2) (3) (4) (5) (6)

(1)	Product series	(2)	Dimensions (L x W): 2.0 x 1.25 mm
(3)	20 = 20dB	(4)	Material Type
(5)	Frequency Range: 1747 = 1747MHz	(6)	ROHs Compliant

Shape And Dimensions



Unit: mm

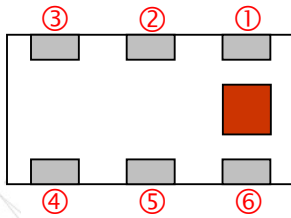
Type	L	W	T	a	b	c	g	p
2012	2.0 ± 0.1	1.25 ± 0.1	0.85 ± 0.1	0.3 ± 0.1	0.2 ± 0.1	0.3 + 0.1/-0.2	0.35 ± 0.1	0.65 ± 0.05

MCP-2012-Series		ELECTRICAL CHARACTERISTICS				
Part Number	Passband (MHz)	Insertion Loss (dB)	Return Loss (dB)	Coupling (dB)	Isolation (dB)	Power Capacity
MCP-2012-20-A-0897-LF	880 ~ 915	0.5 Max.	14.0 Min.	20.0 ± 1.0	25.0 Min.	3W Max
MCP-2012-20-A-1747-LF	1710 ~ 1785	0.5 Max.	14.0 Min.	20.0 ± 1.0	25.0 Min.	3W Max

* All specifications are subjected to change without prior notice.

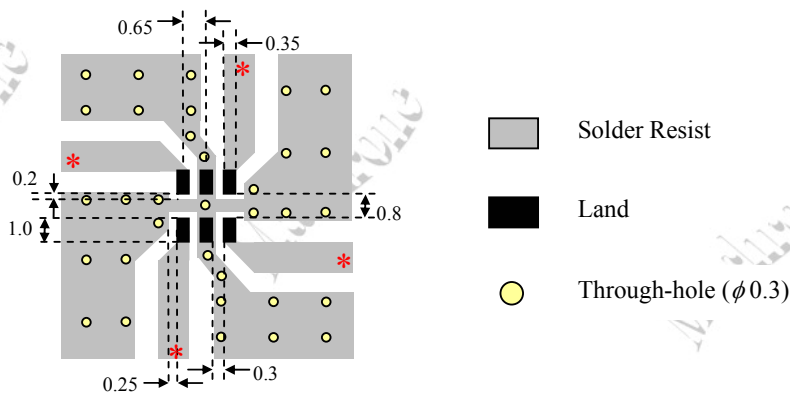
Multilayer Chip Couplers

Terminal Configuration



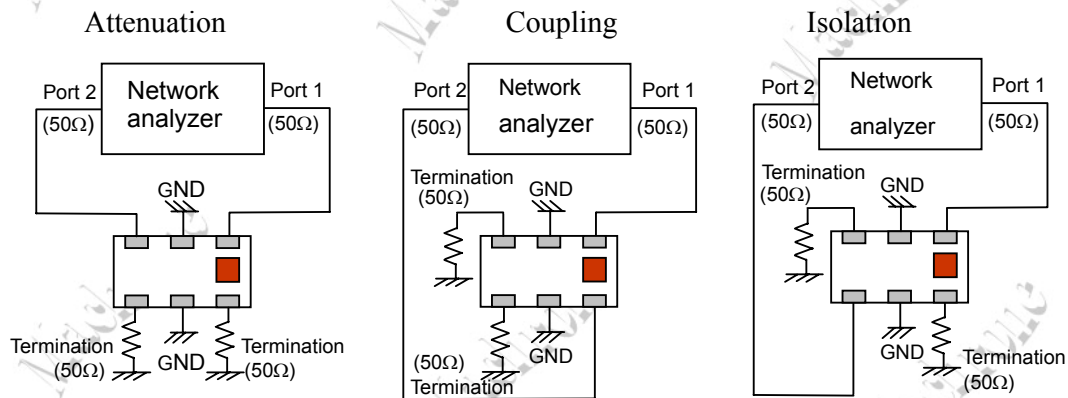
No.	Terminal Name	No.	Terminal Name
1	IN	4	Termination
2	GND	5	GND
3	Main Out	6	Coupled Out

Recommended PC Board Pattern (Unit: mm)



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

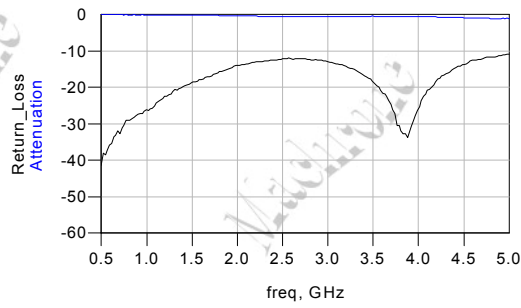
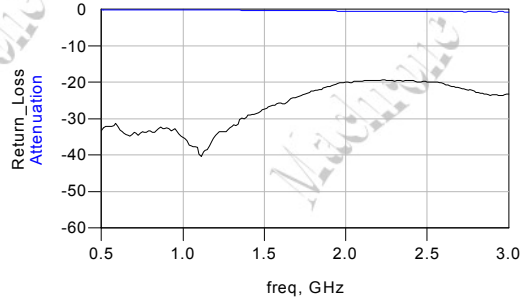
Measuring Diagram



Multilayer Chip Couplers

Typical Electrical Characteristics (Temperature = 25°C)

❖ MCP-2012-20-A-0897-LF



❖ MCP-2012-20-A-1747-LF

