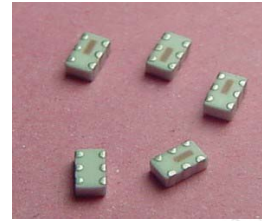


# Multilayer Chip Baluns

## 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.

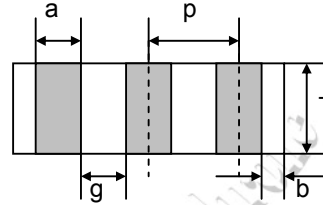
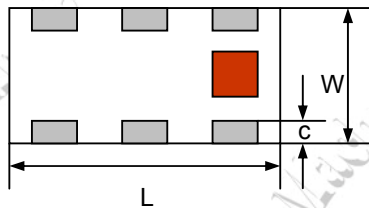
## Part Number Systems

**MBL - 2012 - 20 - B - 2450 - LF**

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

(1)	Product series	(2)	Dimensions (L x W): 2.0 x 1.25 mm
(3)	Balance Impedance: 20 = 200 ohm	(4)	Material Type
(5)	Central Frequency: 2450 = 2450MHz	(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

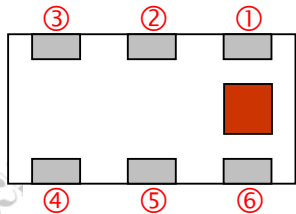
# Multilayer Chip Baluns

MBL-2012-Series					ELECTRICAL CHARACTERISTICS			
Part Number	Frequency Range (MHz)	Unbalanced Impedance (ohm)	Balanced Impedance (ohm)	Insertion Loss (dB)	VSWR @BW	Phase Difference (degree)	Amplitude Difference (dB)	Terminal Configuration
MBL-2012-20-A-1440-LF	1400 ~ 1500	50	200	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	1
MBL-2012-05-A-1850-LF	1700 ~ 2000	50	50	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	1
MBL-2012-10-B-1850-LF	1700 ~ 2000	50	100	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	2
MBL-2012-20-B-1850-LF	1700 ~ 2000	50	200	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	2
MBL-2012-05-B-2450-LF	2400 ~ 2500	50	50	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	2
MBL-2012-10-B-2450-LF	2400 ~ 2500	50	100	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	2
MBL-2012-20-B-2450-LF	2400 ~ 2500	50	200	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	2
MBL-2012-10-B-5512-LF	5150 ~ 5875	50	100	1.0 Max.	2.0 Max.	180 ± 10	2 Max.	3

**Power Capacity: 3W Max**

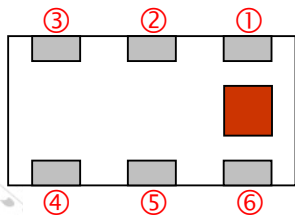
\* All specifications are subjected to change without prior notice.

## Terminal Configuration (1)



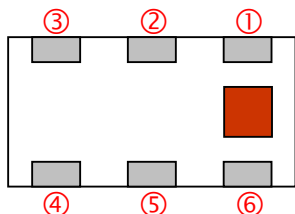
No.	Terminal Name	No.	Terminal Name
1	Unbalance Port	4	Balanced Port
2	GND	5	GND
3	Balanced Port	6	NC

## Terminal Configuration (2)



No.	Terminal Name	No.	Terminal Name
1	Unbalance Port	4	Balanced Port
2	GND or DC feed	5	GND
3	Balanced Port	6	NC

## Terminal Configuration (3)

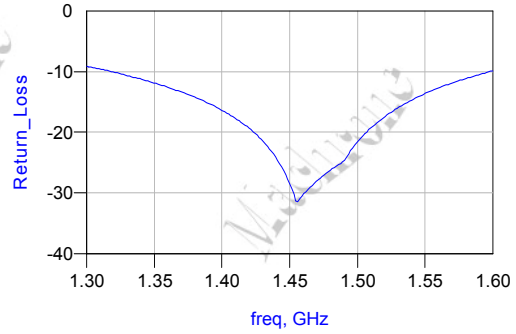
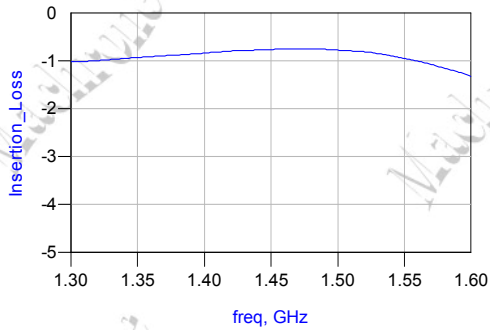


No.	Terminal Name	No.	Terminal Name
1	Unbalance Port	4	Balanced Port
2	NC or DC feed	5	GND
3	Balanced Port	6	NC

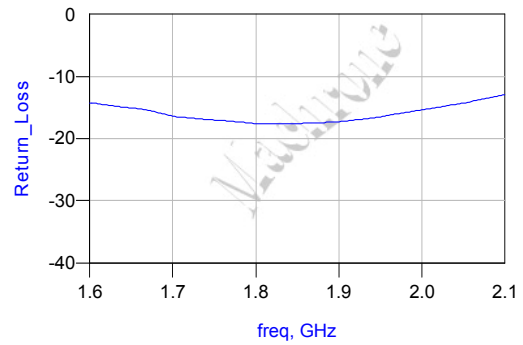
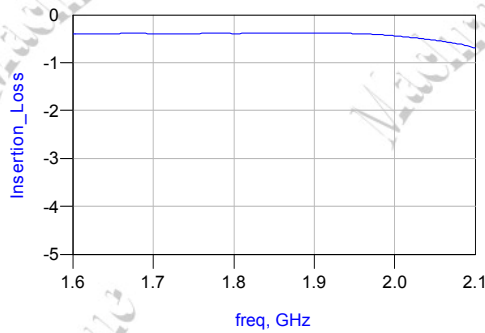
# Multilayer Chip Baluns

## Typical Electrical Characteristics (Temperature = 25°C)

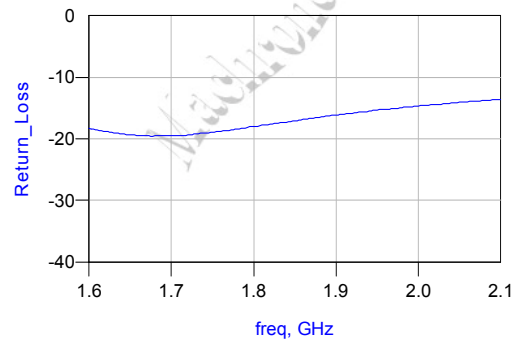
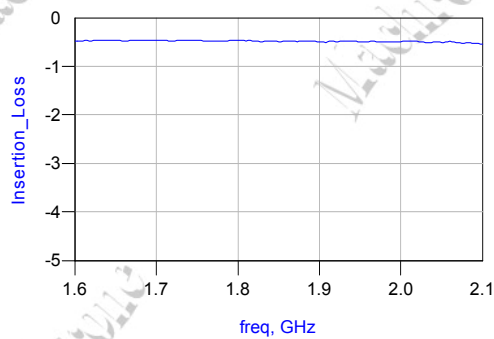
### ❖ MBL-2012-20-A-1440-LF



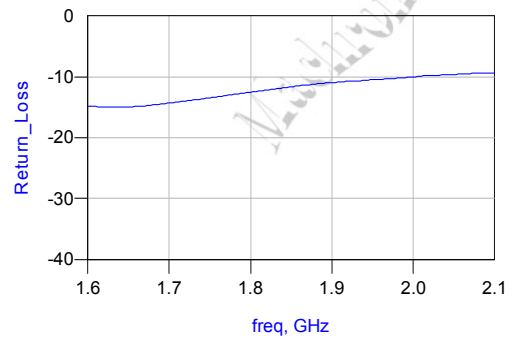
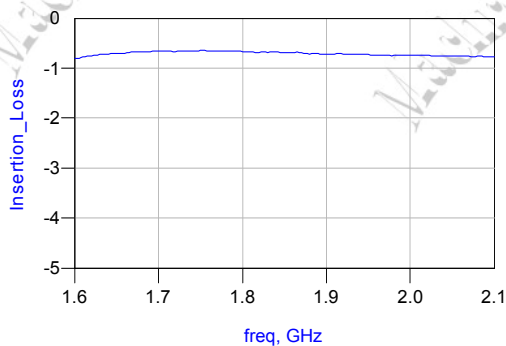
### ❖ MBL-2012-05-A-1850-LF



### ❖ MBL-2012-10-B-1850-LF

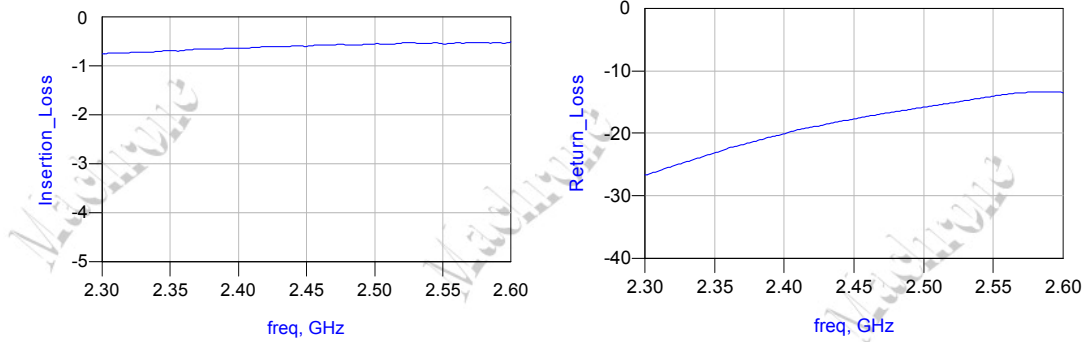


### ❖ MBL-2012-20-B-1850-LF

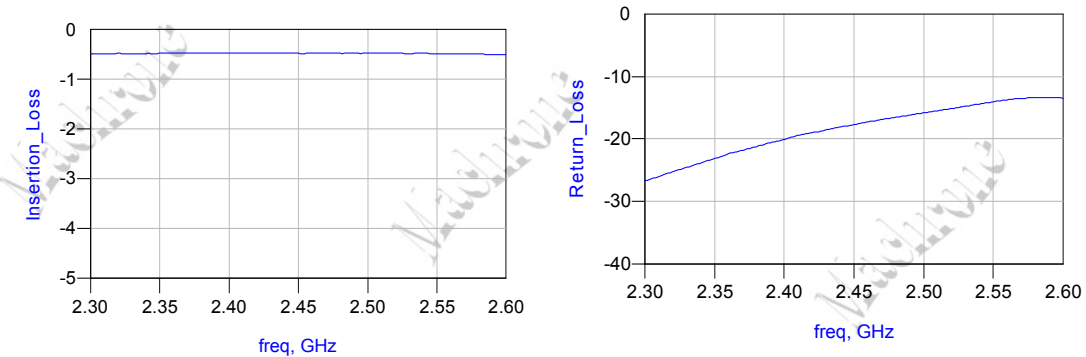


# Multilayer Chip Baluns

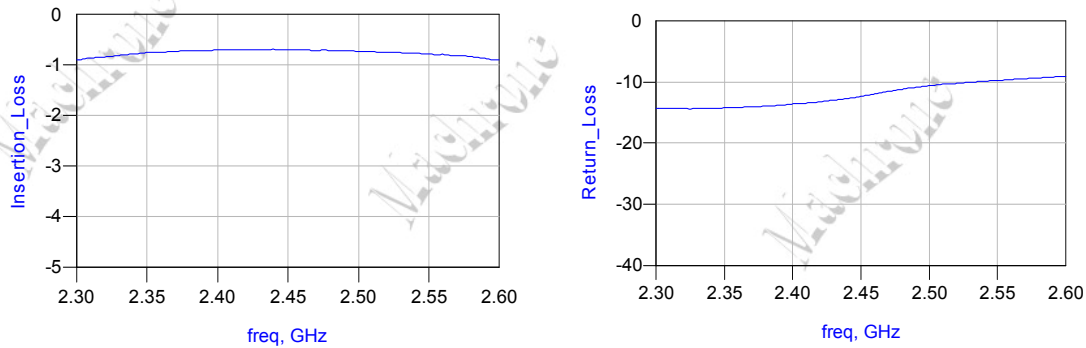
## ❖ MBL-2012-05-B-2450-LF



## ❖ MBL-2012-10-B-2450-LF



## ❖ MBL-2012-20-B-2450-LF



## ❖ MBL-2012-10-B-5512-LF

