

# Multilayer Chip Antenna

## Features

- Monolithic SMD with small, low-profile and light-weight type
- Wide bandwidth.



## Applications

- GPS Modules.

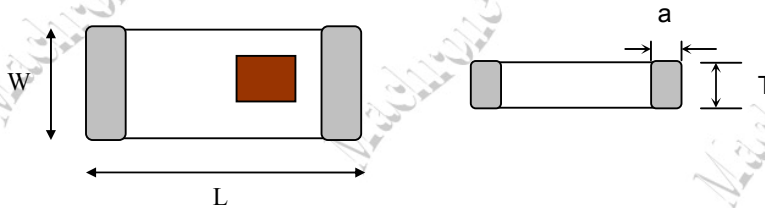
## Part Number Systems

**MAT - R130 - B - 1R5 - GAA - LF**

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

(1)	Product series	(2)	Dimensions (L x W): 10 x 3.0 mm
(3)	Material code	(4)	Frequency Range: 1R5 = 1500MHz
(5)	Specification code	(6)	ROHs Compliant

## Shape And Dimensions



Unit: mm

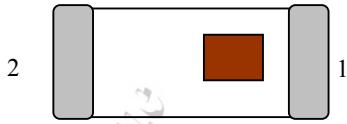
Type	L	W	T	a
R130	10 ± 0.2	3.0 ± 0.2	0.77 ± 0.2	0.75 ± 0.2

MAT-R130-Series		Electrical Characteristics				
Part Number	Frequency Range (MHz)	Peak Gain (TYP)	Average Gain (TYP)	VSWR	Impedance	Power Capacity
MAT-R130-B-1R5-GAA-LF	1555 ~ 1595	-1.0 dBi	-3.0 dBi.	2 Max	50 Ω	3W Max

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

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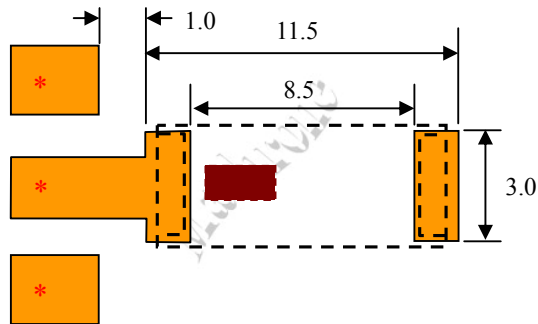
## Terminal Configuration



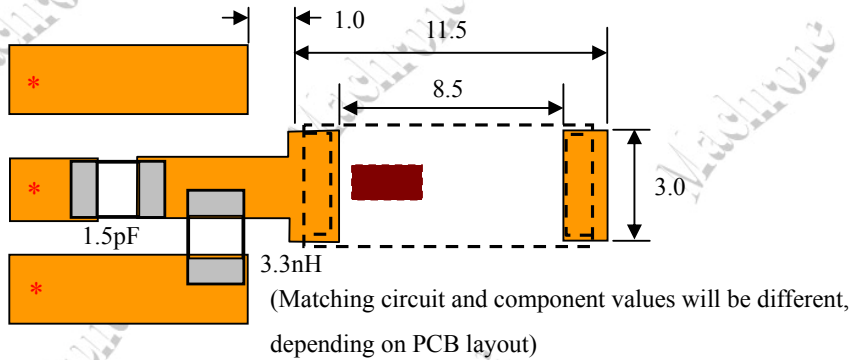
No.	Terminal Name	No.	Terminal Name
1	Feeding Point	2	NC

## Recommended PC Board Pattern (Unit: mm)

(a) Without Matching Circuits (Moderate Bandwidth)



(b) With Matching Circuits (Wide Bandwidth)

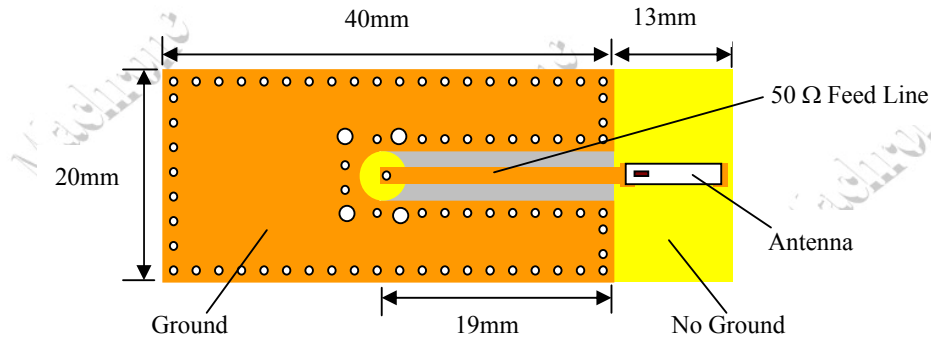


\*Line width should be designed to match 50Ω characteristic impedance, depending on PCB material and thickness.

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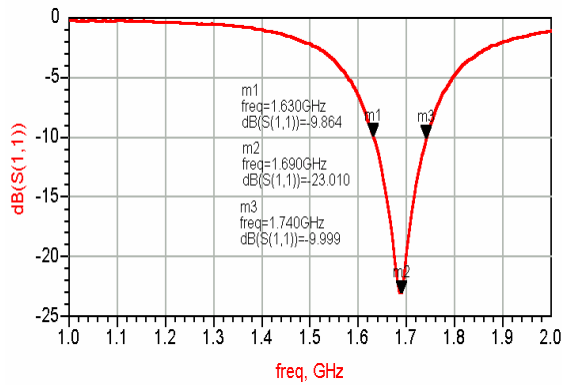
## Typical Electric Characteristics (T = 25°C)

### ❖ Test Board



### ❖ Return Loss

(a) Without Matching Circuits



(b) With Matching Circuits

