

Inversa Antenna for LTE applications

Part No SR4L034

lamiiANT

Product Brief

4G LTE Diversity Antenna

Inversa is a 4G antenna that is specifically designed for LTE diversity devices with small ground host PCB areas.

Frequency bands:

698-798 MHz
824-960 MHz
1710-2170 MHz
2300-2400 MHz
2500-2690 MHz

Inversa is designed to give high performance in diversity applications. It uses beam steering to ensure good isolation and cross correlation.

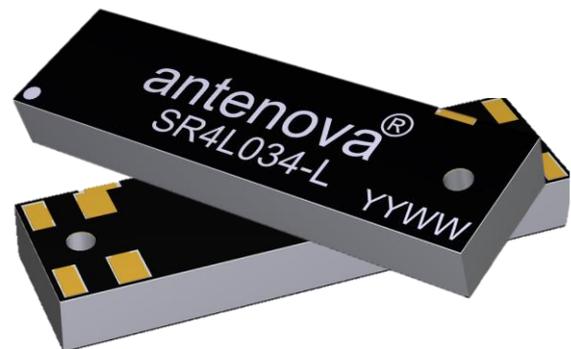
The antenna is available in Left and Right versions and is corner mounted to minimise PCB real-estate requirements.

Features

- SMD for ease of assembly
- Ideal for small devices ($\geq 60\text{mm}$)
- Beam steering for optimal diversity
- Can be used with active tuning circuit

These 4G antennas are ideal for very small devices with limited space. They are designed to work in pairs to provide identical performance across all bands as well as excellent isolation and ECC (Envelope Cross Correlation)

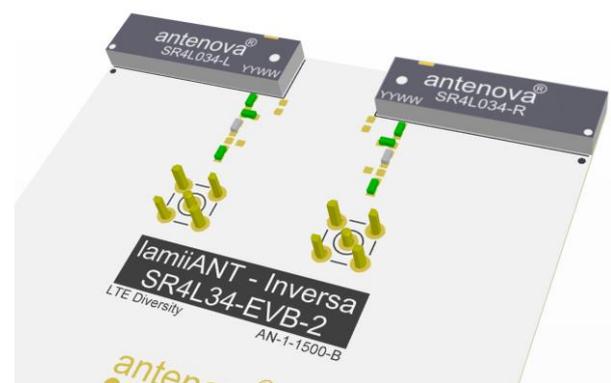
Inversa Antenna
 $L=28\text{mm}$ $W=8.0\text{mm}$ $H=3.3\text{mm}$



Corner Mounted



Inversa EVB-2 Diversity



Inversa is designed to work alone or in a pair for 4G diversity applications.

Active tuning can also be implemented to add band selectivity and help the low band tuning.

Product name	Inversa
Part number	SR4L034
Frequencies	698-798MHz 824-960MHz 1710-2170MHz 2300-2400MHz 2500-2690MHz
Dimensions	28.0 x 8.0 x 3.3 mm
Polarization	Linear
Operating temperature	-40°C to +120°C
Impedance	50ohm
Weight	<1.5g

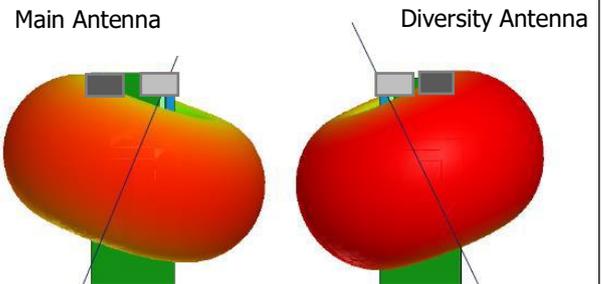
	698-960MHz	1710-2170MHz	2500-2690MHz
Peak gain	-0.40dBi	2.5dBi	3dBi
Average gain	-1.5dBi	-1.5dBi	<1.5dBi
Average Efficiency	>60%	>60%	>60%
Max return loss	<-6dB	<-8dB	<-8dB
Max VSWR	1.90:1	1.60:1	1.50:1
Min Isolation*	<-14dB	<-15dB	<-25dB
ECC*	<0.6	<0.5	<0.5

*Antenna distance = 12mm

Antennas Left and Right Version



Beam steering shown at 700MHz



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Antennas for Wireless M2M Applications