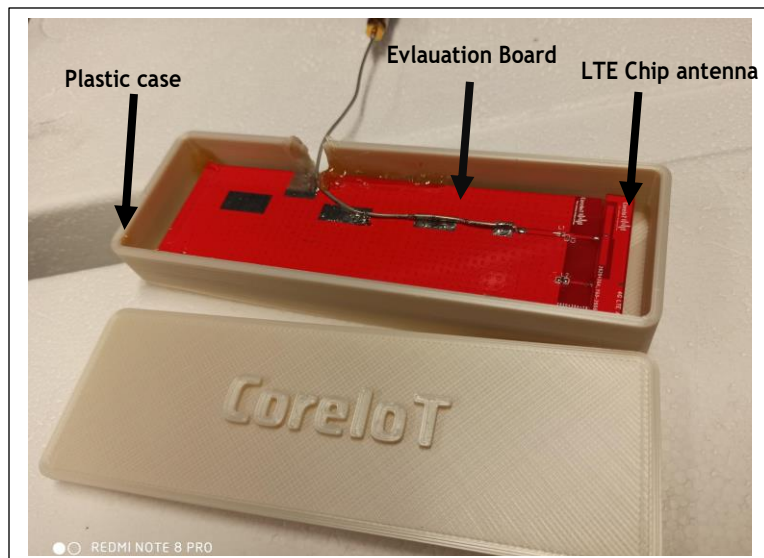
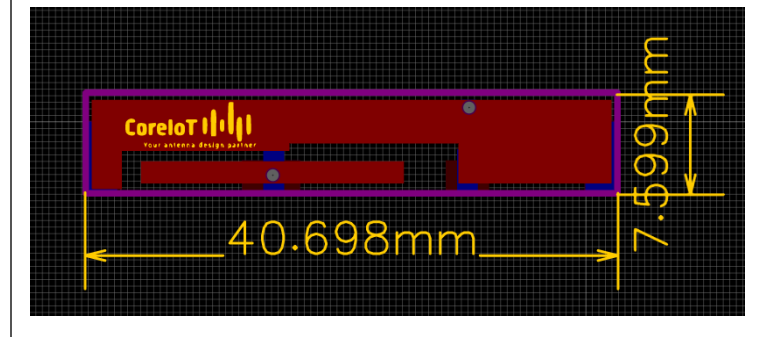


1. Size of Chip antenna
40.5mmx7.5mmx1.6mm
2. Evaluation Board size
135mmx40mm
3. AdhesiveTape/Glass
Mount Design
4. IPEX MHFI, UFL
Compatible.

Applications

1. Cellular IoT: LTE-M (Cat-M1) and NB-IoT
2. Worldwide LTE, UMTS and GSM
3. Low-power, wide-area (LPWA)
4. Smart Home networking
5. Sensing and remote monitoring
6. Internet of Things (IoT) devices

LTE Chip antenna



LTE chip Antenna with plastic case

Features

1. Ground plane dependent
2. 698 - 2700 MHz
3. >32% Efficiency on All bands
4. -2.27 dBi Peak Gain

Introduction

CoreloT chip antenna is designed to cover the full cellular 2G / 3G / GSM / 4G / LTE bands, covering frequencies 698-960 MHz & 1710-2690 MHz. Antenna delivers excellent performance and is fully compatible with SMT processes which decreases the assembly cost and improve device's quality and consistency.



Electrical Specification

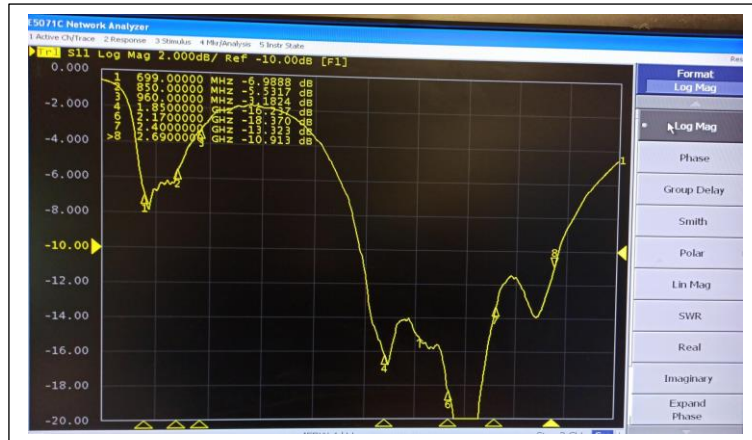
- Frequency: 698 - 2700 MHz
- Impedance: 50 Ω

Equipment Used

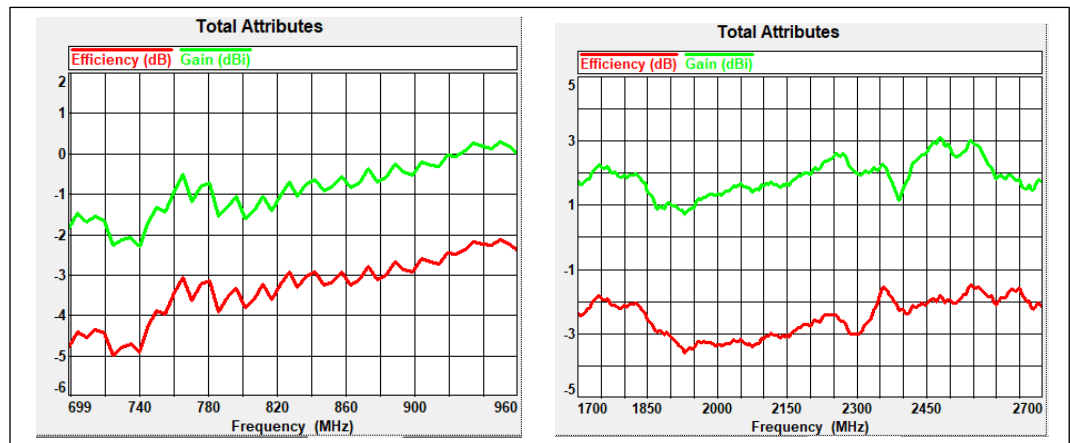
- ETS 8050 Antenna Anechoic Chamber
- Keysite 5071C VNA (Radiation Pattern Measurement)
- Agilent 5071C VNA (Return Loss Measurement)

BAND	700/850/900	1700/1800/1900	2100	2400	2600
STANDARD	CELLULAR	CELLULAR	CELLULAR	ISM	CELLULAR
Frequency(m hz)	698 - 960	1710 - 1990	1755 - 2170	2400 - 2500	2500 - 2690
Max. VSWR	$\leq 5.52:1$	$\leq 1.92:1$	$\leq 1.92:1$	$\leq 1.57:1$	$\leq 1.92:1$
Max. Return loss (dB)	≥ 3.18	≥ 10	≥ 10	≥ 13	≥ 10
Peak gain(dBi)	≥ -2.27	≥ 0.71	≥ 0.71	≥ 1.55	≥ 1.68
Efficiency(%)	≥ 32	≥ 43	≥ 43	≥ 58	≥ 61
Radiation properties	Omni directional				
Max. input power	2W				
Polarization	Linear				
Impedance(oh ms)	50 ohm				

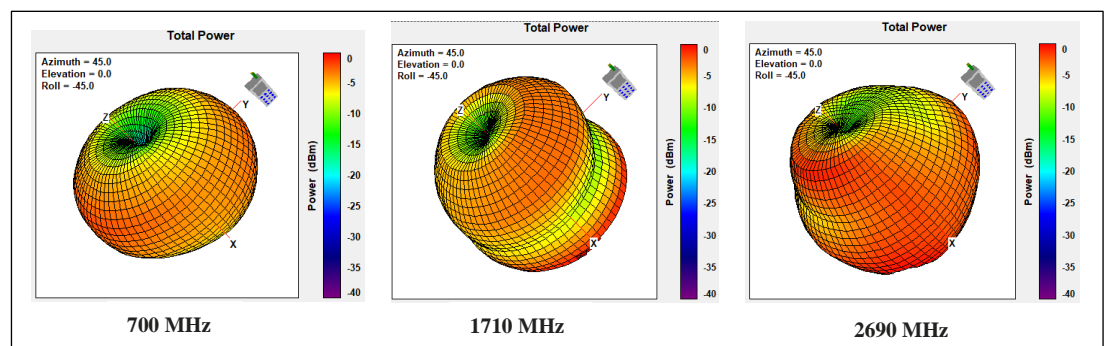
Return loss



Efficiency



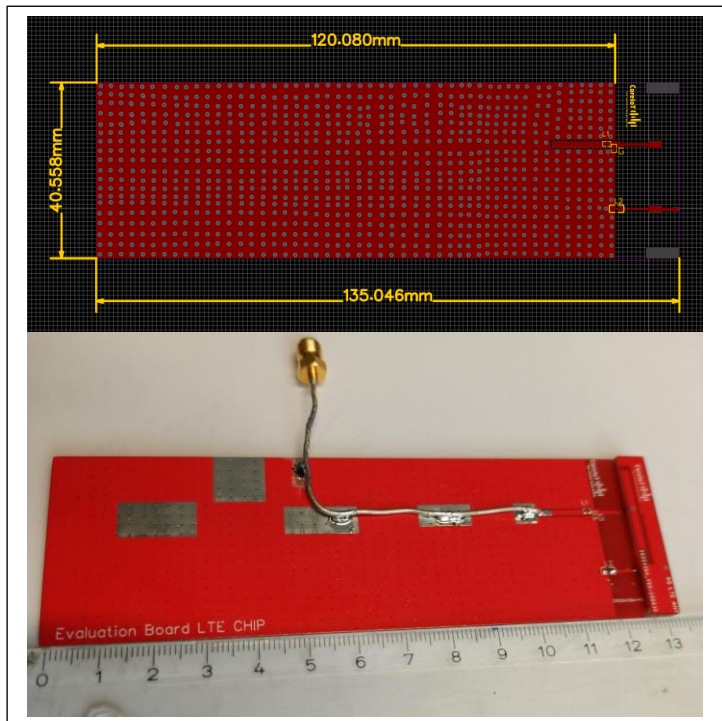
Radiation Pattern



Evaluation board

Features

1. Evaluation board have been used for measurement of LTE chip antenna.
2. Evaluation Board size 135mmx40mm



Matching circuit

