



# **BT/Wi-Fi 2.4 GHz EMBEDDED CHIP ANTENNA**

Part Numbers: 2108838-1

#### **FEATURES & BENEFITS**

- Wi-Fi 2.4 GHz, Bluetooth, ZigBee
- Embedded Ceramic Chip Antenna
- On Board SMD Antenna
- Available in tape & reel
- The following data is based on 10 x 30 mm ground size

#### **SPECIFICATIONS**

Frequency Range (MHz)	2400-2500
VSWR	< 2.0:1
Average Efficiency	57%
Peak Gain	2.4 dBi
Average Gain	-2.5dBi
Feed Point Impedance	50 ohms
Polarization	Linear
Size	3.2 mm x 1.6 mm x 1.2 mm
Weight	< 0.02 g
Mounting	Surface mount
Mating Connector	N/A
Cable	N/A
Operating Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Hazardous Materials	A certificate of conformance is available from the product page on TE website.

## **RF DATA**



Efficiency



### **RADIATION PATTERN**







- NOTES: 1. No copper allowed in designated area on all PCB layers
  - 2. Measured with above matching circuit condition.
  - 3. For more information please call TE.
  - 4. Measured with below matching circuit condition.
    - 1 4.7nH 2 1.8nH 3 NC



#### DIMENSIONS





**Dimension: mm** 

Diagrams is not to scale

Dimension: mm Diagrams is not to scale Standard Antenna Solutions

#### PACKAGING



For phone numbers in other countries, go to te.com/support-center

+31 (0) 73-6246-999

+86 (0) 400-820-6015

#### te.com

Netherlands: China:

TE Connectivity, TE Connectivity (logo) are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity's obligations shall only be as set forth in TE Connectivity's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.

© 2020 TE Connectivity Ltd. family of companies All Rights Reserved.

03/2023

