



13.56MHz RFID/NFC EMBEDDED NFC ANTENNA

Part Numbers:
 L001047-01
 L001047-02
 L001047-03

FEATURES & BENEFITS

- Frequency 13.56MHz
- Universal antenna module assembly
- Antenna bottom with ferrite to increase the performance
- Low profile
- Flexible embedded antenna
- Peel and stick adhesive application
- Higher reading distance than competition

SPECIFICATIONS

Frequency Range	13.56 MHz
La (Antenna Inductance)	3 uH
Ra (Antenna Resistance)	1.6 ohm
Self-resonance Frequency	67 MHz
Rp (Parallel Resistance)	5.1K ohm
Tag Distance	65 mm
Size	32.24 mm x 23 mm x 0.18 mm
Weight	< 1 g
Mounting	Adhesive
Mating Connectors	See Table
Cable	NA
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.

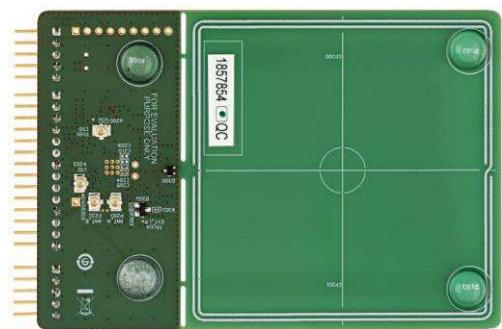
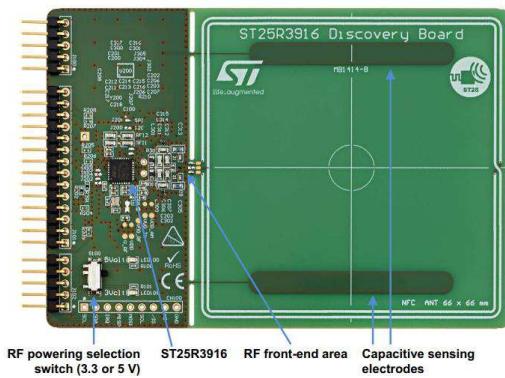
Test setup

(Shown L001047-01)



Figure 1. MB1414 board (bottom view)

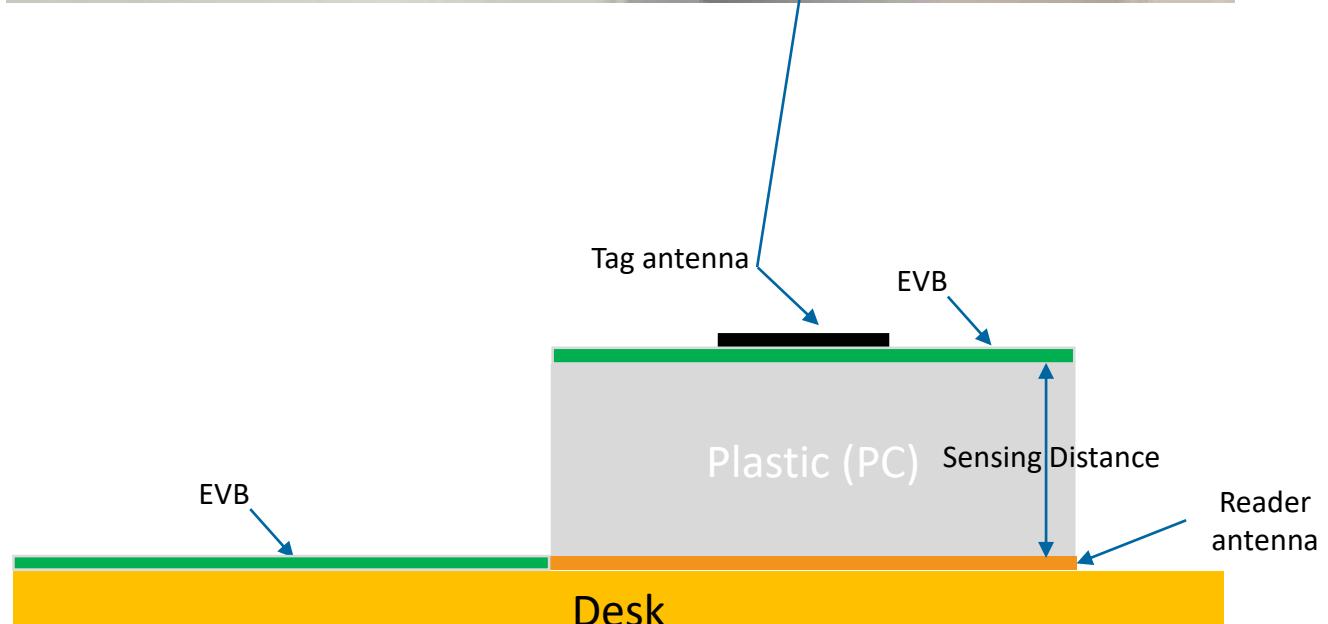
Figure 2. MB1414 board (bottom view)



Test setup

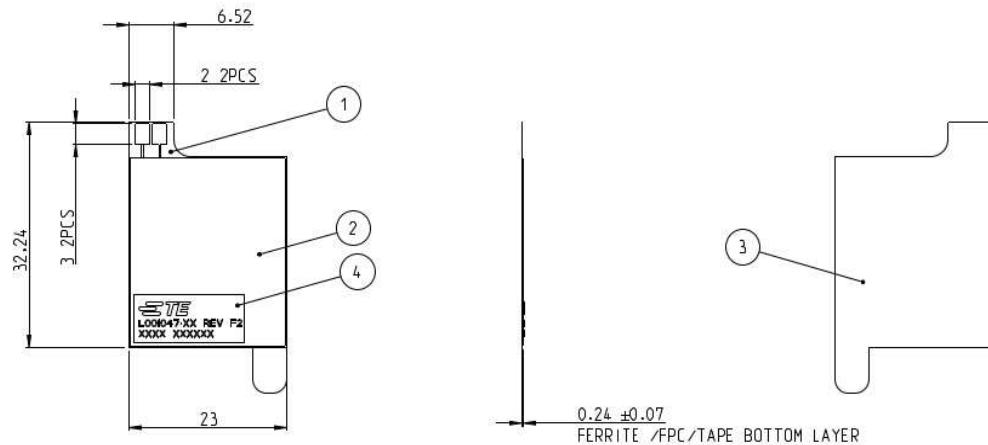
(Shown L001047-01)

EVB MB1414 board

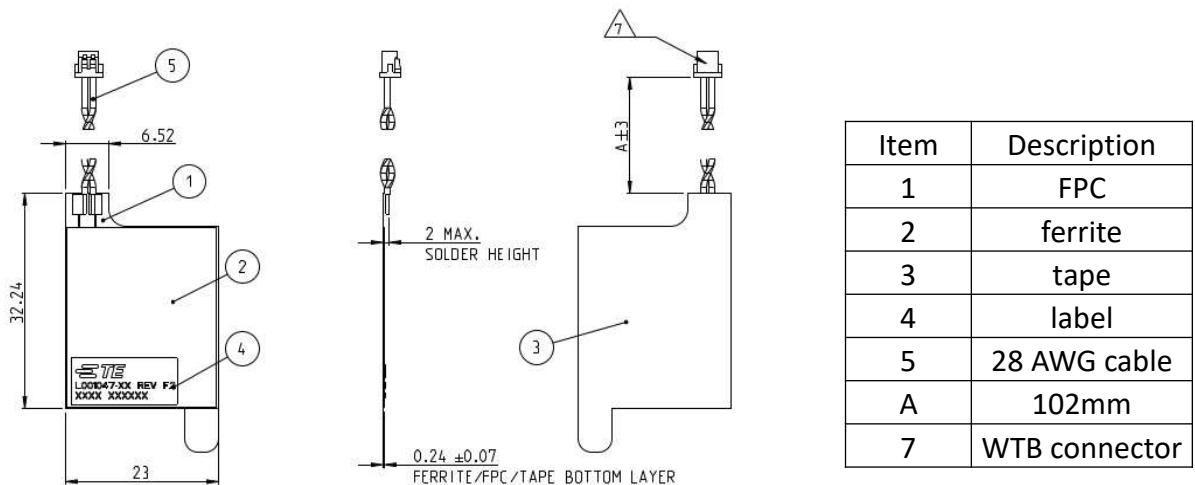


DIMENSIONS

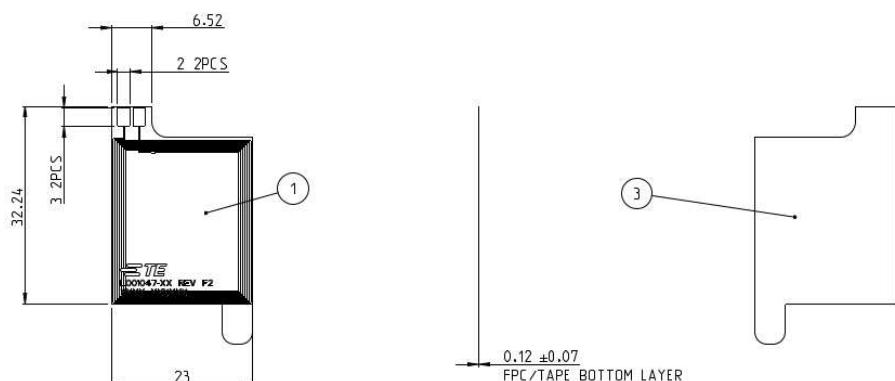
L001047-01



L001047-02



L001047-03



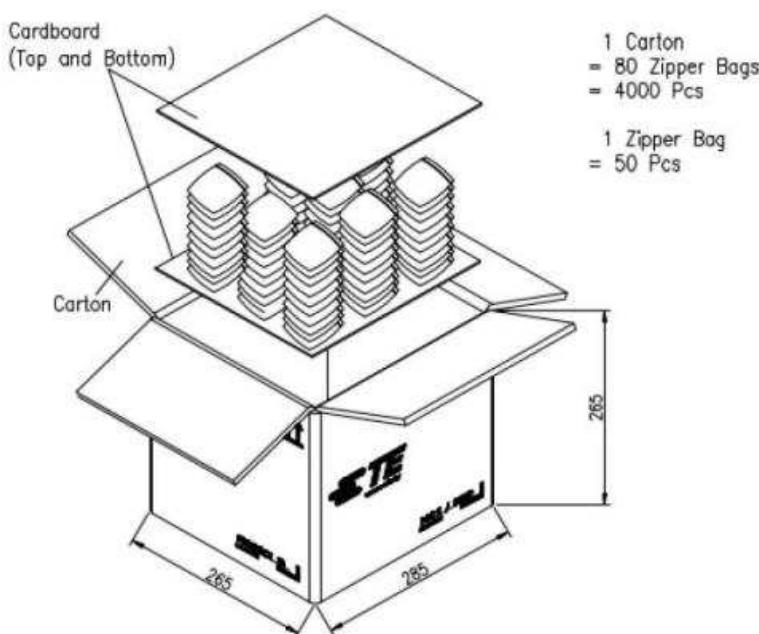
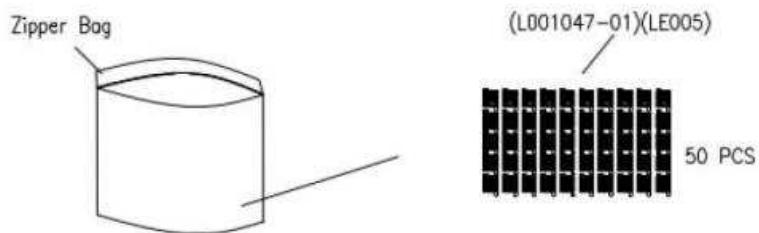
Dimensions: mm
Diagram is not to scale

MATING COMPONENTS TO PART NUMBERS AND DIMENSIONS

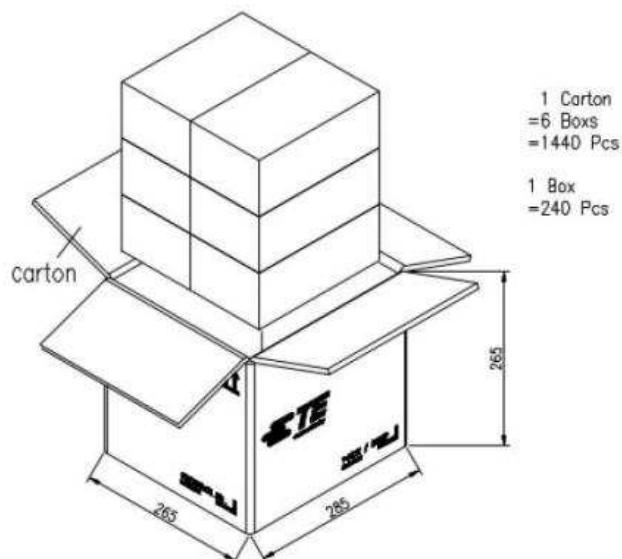
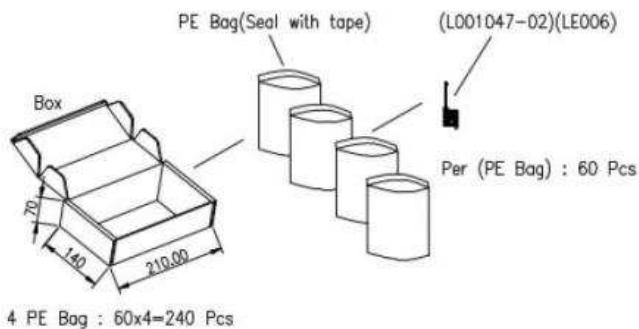
L001047-02	100	3.937	28 AWG	Wire to Board	On antenna : Compatible with TE PN# 440146-2 1.25mm WTB Socket	
					Mapping : TE PN# 2473229-2 1.25mm WTB HDR	
PART	MM	INCH	CABLE	CONNECTOR TYPE	PART NUMBER	IMAGE
NUMBER	CABLE LENGTH(A)			(ON CABLE)	MATING COMPONENTS	

PACKAGING

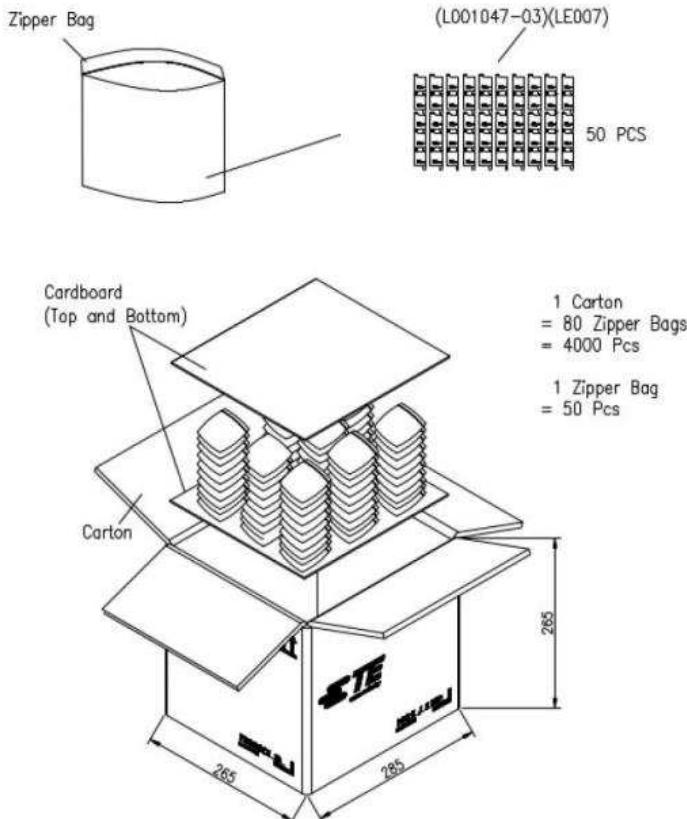
L001047-01



L001047-02



L001047-03



TE TECHNICAL SUPPORT CENTER

USA:	+1 (800) 522-6752
Canada:	+1 (905) 475-6222
Mexico:	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
UK:	+44 (0) 800-267666
France:	+33 (0) 1-3420-8686
Netherlands:	+31 (0) 73-6246-999
China:	+86 (0) 400-820-6015

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

te.com

TE, TE Connectivity and TE connectivity (logo) are trademarks owned or licensed by the TE Connectivity plc family of companies. Other product names, logos, and company names mentioned herein may 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. Antenna performance may vary. TE is a component manufacturer, and customer and/or end-user is responsible for all end-use compliance and regulatory requirements.

© 2025 TE Connectivity. All Rights Reserved.

Published 01-25