

Differences between WCH-402a and WCH-402b

Product name: **Wireless Charger Module (WCM)**
Model: **WCH-402**
Type: **WCH-402a** and **WCH-402b**

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Approver: Abdelnasser Farrag
Function: Product Acceptance Engineer
Location: TCF

Change History

Version	Date	Status	Handled by	Comments
0.1	28-01-2026	Proposal for review	Anirudh J P	Initial version for review
1.0	17.02.2026	Approved	Abdelnasser Farrag	Approved after review
1.1	20.03.2026	Update	Ines Baufeld	Update chapter 2.5: additional information added for meachnical differences; update Introduction information
2.0	20.03.2026	Approved	Ines Baufeld	Approval

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1. INTRODUCTION

This document describes similarities and differences in software, hardware and mechanics between the different variants of model WCH-402.

For the type WCH-402a and type WCH-402b the only difference is the mechanical part. Please refer to section 2.5.

Main features to describe differences and similarities	WCH-402a	WCH-402b
OEM Part-No	VU5T-19J235-BA	VU5T-19J235-AA
Model	WCH-402	WCH-402
Type designator	WCH-402a	WCH-402b
CAN Speed	NA	NA
Qi design Single/Dual	Single	Single
Keyless Entry	NA	NA
NFC Support	NA	NA
Coupling Antenna	NA	NA
Dimensions	147.80 x 77.80 x 31.57(L x W x H in mm)	147.80 x 77.80 x 29.90(L x W x H in mm)
Weight	150 g +/- 15 g	150 g +/- 15 g

2. DIFFERENCES IN HARDWARE

Main board: No differences between the two variants

Antenna board: NA. No antenna board in both variants.

2.1 RF circuit

NA. No NFC feature in both variants

2.2 PCB layout

No differences between the two variants

2.3 Antenna

NA. No NFC antenna in both variants.

2.4 User Interface (UI)

No differences between the two variants

2.5 Mechanics

The differences between the tall (WCH-402a) and short (WCH-402b) variants relate to the shape of the plastic enclosures as detailed in the drawings as shown. These differences are needed to allow the wireless charger to be installed in two different vehicle console designs.

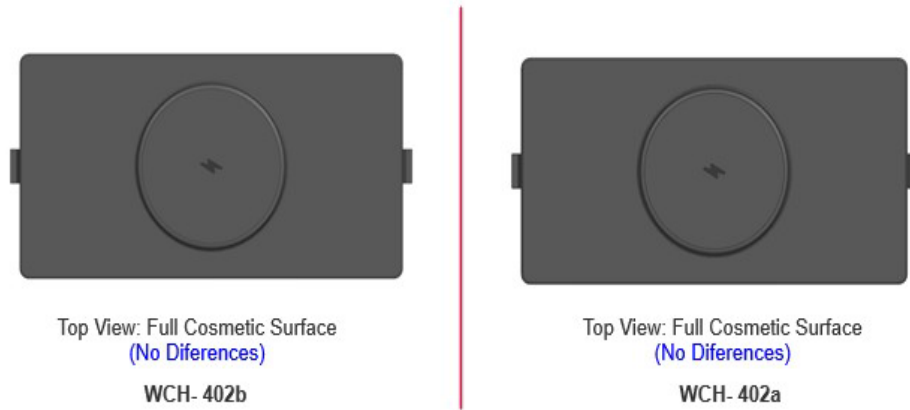


Figure 1. Top view 1

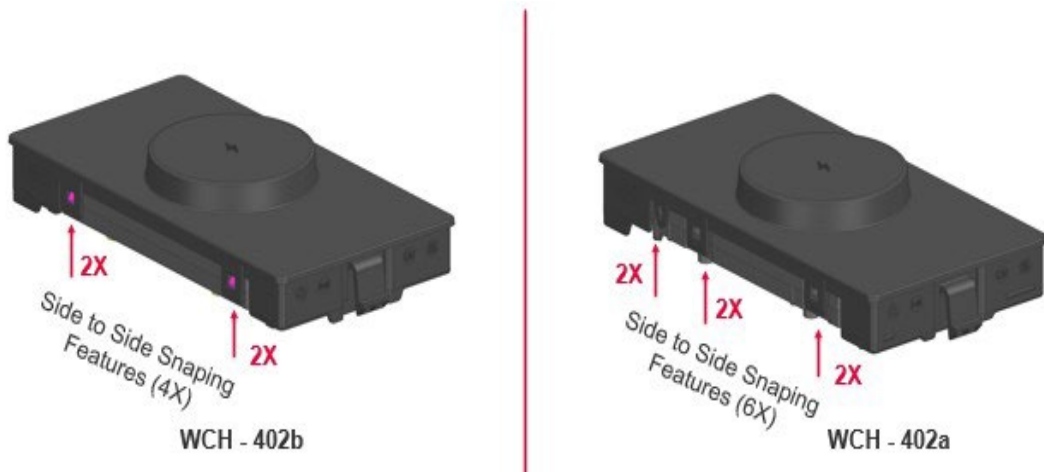


Figure 2. Top view 2

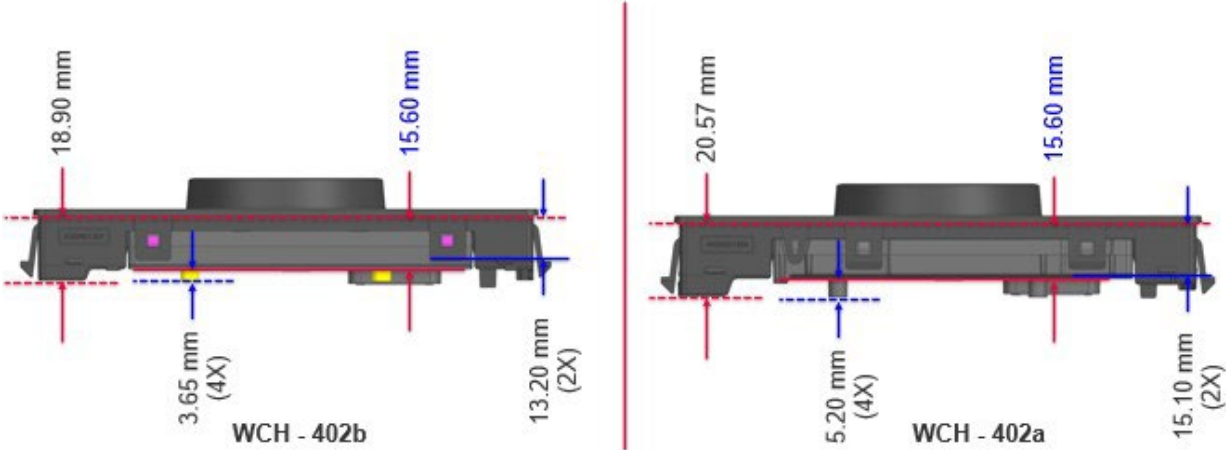


Figure 3 Side view

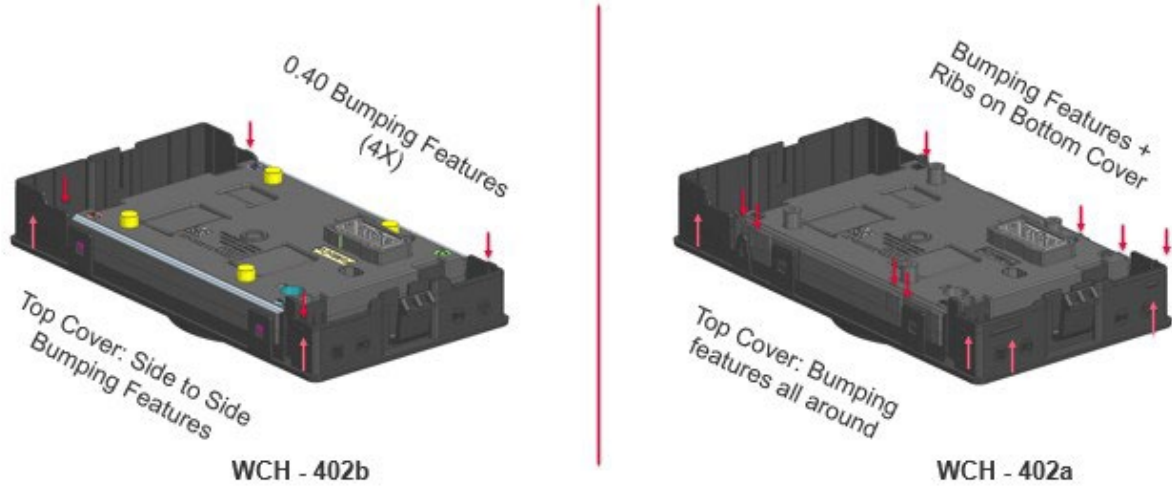
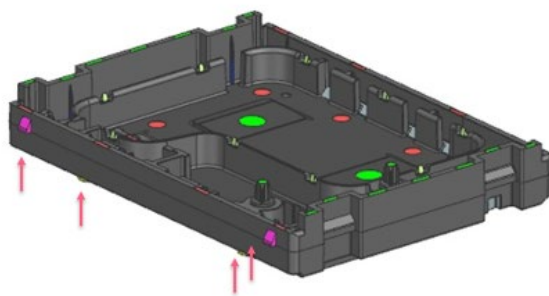
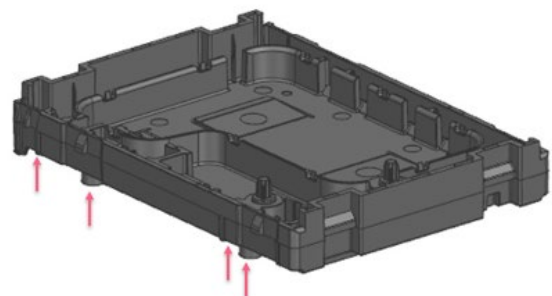
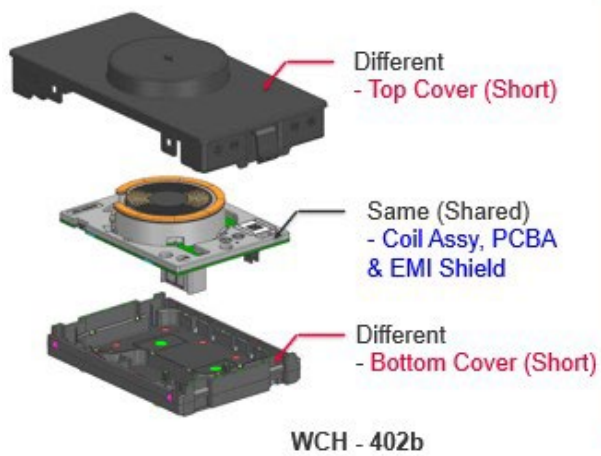
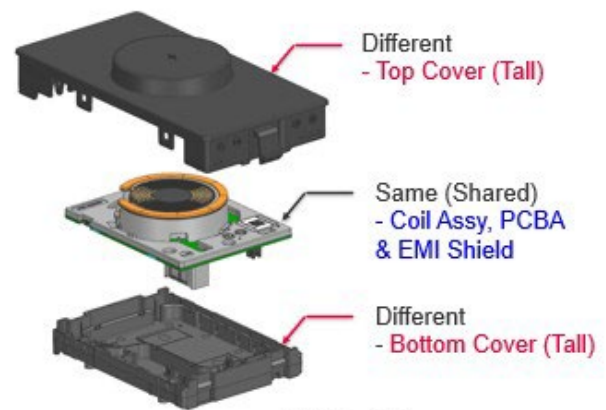


Figure 4. Bottom view

**WCH - 402b****WCH - 402a***Figure 5 Bottom cover***WCH - 402b****WCH - 402a***Figure 6 Shared architecture*

2.6 Other

NA

3. DIFFERENCES IN SOFTWARE

No differences between the two variants

4. CONCLUSION TABLE

Due to the differences described within this document it is recommended to perform the following product certification tests:

Sub-certification process	Standard	Tests	Comments
EMC	EN 301 489-1 (General)	None	
	EN 301 489-3 (NFC, WPT)	None	
	EN 301 489-52 (GSM, WCDMA, LTE)	None	
Spectrum	EN 300 330 (WPT)	None	
	EN 300 330 (NFC)	None	
	EN 301 511 (GSM)	None	
	EN 301 908-1/-2/-13/25 (WCDMA, LTE, NR)	None	
	EN 303 417 (WPT)	None	
Safety & Health	EN 62368-1	None	
	EN 62311 (MPE calculation)	None	
Cyber Security	EN 18031-1	None	
FCC	Part 1 (RF Exposure)	None	
	Part 2 (General)	None	
	Part 15 (WPT/NFC)	None	
	Part 20 (Wideband Consumer Booster)	None	
	Part 22 (850MHz)	None	
	Part 24 (1900MHz)	None	
	Part 27 (700/1700/2600MHz)	None	
	Part 90 (800MHz)	None	
ISED	RSS-Gen	None	
	RSS-102.NS.SIM/MEAS	None	
	RSS-102	None	
	RSS-131 (Zone Enhancers)	None	
	RSS-210 (NFC)	None	
	RSS-216 (WPT)	None	
E-Mark	UNECE R10	None	
USB	SuperSpeed	None	
	High-Speed	None	
	Low and Full-Speed	None	
Wireless Power Transmission (Qi)	Power Class 0 Specification: Part3 Compliance & IOP Testing	None	
	Market Inspection Test	None	
NFC	High Level Conformance Requirements	None	
Hazardous substances	EN IEC 63000	None	
ITA	Different standards	Countries which do not allow family certification	

5. REFERENCES