















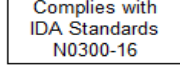
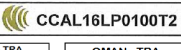

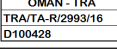

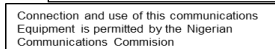


76.2 (3 in.)

**FORD MOTOR COMPANY**  
**MODEL: SYNC-G4**  
**IC: 1422A-SYNG4**  
**FCC ID: KMH-SYNG4**  
**CNC ID:**  
**IFT Numero:**  
**NCA APPROVED:**  
**ANATEL ID:**  
**CMIIT ID:**  
**JORDAN:**

SAMPLE UNIT

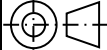

מספר אישור אלחוטני של משרד התקשורת הוא 51-52550  
אסור להחליף את האנטנה המקורית של המכשיר ולא  
לעשות בו כל שינוי טכני אחר

KOREA CERT #: MSIP-

25.4 (1 in)

| LTRS                      |         | REVISIONS |          |
|---------------------------|---------|-----------|----------|
| ORIGINATOR                | CHECKER | ENG APP   | MATL APP |
| RELEASED                  |         |           |          |
| AA2 - 2019 04 09          |         |           |          |
| ADAVI268                  | CDSID   | CDSID     | CDSID    |
| ADDED SYNG4 TO FCC AND IC |         |           |          |
| AA3 - 2019 05 09          |         |           |          |
| ADAVI268                  | CDSID   | CDSID     | CDSID    |

- PART AS RECEIVED AT THE FORD PLANT OR SERVICE PART PACKAGER / WAREHOUSE MUST BE FREE OF ANY CORROSION ALIGNED WITH THE FORD CUSTOMER SERVICE DIVISION (FCSD) PACKAGING AND SHIPPING GUIDE. PACKAGING AND PROTECTIVE MATERIALS MUST PRESERVE THE INTENDED FUNCTION AND APPEARANCE OF THE PART
- CHANGES TO DESIGN, COMPOSITION OR PROCESSING OF THE PART PREVIOUSLY APPROVED FOR PRODUCTION REQUIRE PRIOR APPROVAL FROM FORD MOTOR COMPANY PRODUCT ENGINEERING. REFER TO ISO/TS 16949
- FOR CURRENT RELEASE STATUS, SEE THE WERS ENGINEERING NOTICE
- FOR THE PURPOSES OF GEOMETRIC TOLERANCING, ALL DIMENSIONAL INFORMATION CONTAINED IN THE CAD MODEL IS BASIC (THEORETICAL)
- THIS DRAWING HAS BEEN PREPARED BY OR ON BEHALF OF FORD MOTOR COMPANY. FORD MOTOR COMPANY RETAINS ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS. THIS DRAWING MUST NOT BE USED FOR ANY PURPOSE OTHER THAN PERFORMING SERVICES DIRECTLY OR INDIRECTLY TO FORD MOTOR COMPANY, WITHOUT THE EXPRESSED WRITTEN PERMISSION OF FORD MOTOR COMPANY. UNAUTHORIZED USE, COPYING OR MODIFICATION, INCLUDING THE REMOVAL OF THIS NOTE, MAY CONSTITUTE A VIOLATION OF CIVIL OR CRIMINAL LAWS ENFORCEABLE BY FORD OR GOVERNMENTAL AGENCIES COPYRIGHT 2018 FORD MOTOR COMPANY
- ENGINEERING APPROVAL OF PRODUCTION SAMPLES FOR EACH SUPPLIER IS REQUIRED PRIOR TO AUTHORIZATION OF INITIAL PRODUCTION.
- SUPPLIER SPECIFICATIONS MAY APPLY AT PPAP – ALL SUPPLIER SPECIFICATIONS SHALL BE APPROVED FOR USE BY FORD MOTOR COMPANY PRODUCT ENGINEERING AND SHALL BE PRODUCED UPON REQUEST.
- SOURCES FOR MATERIAL DEFINED BY FORD MATERIAL SPECIFICATIONS SHALL BE SELECTED FROM THE FORD MOTOR COMPANY ENGINEERING MATERIAL APPROVED SOURCE LIST.
- UNIT OF MEASUREMENT: MILLIMETER (MM). ALL DIMENSIONS TO PROJECTED THEORETICAL SHARP CORNERS.
- MATERIAL: BRADY B-423 OR EQUIVALENT 0.0762 MM THICK  
SUPPLIER MAY PURCHASE BRADY PRODUCT NUMBER 114181  
LABEL MUST MEET PERFORMANCE SPEC: PSA, INTERIOR WSS-M99P41-A31
- GENERAL TOLERANCES: UNLESS OTHERWISE SPECIFIED  
0<DIM< 30 = +/-0.20MM  
30<DIM<120 = +/-0.30MM  
120<DIM<300 = +/-0.40MM
- LABEL PRINTING MUST ADHERE TO FAA02-007-A TRACEABILITY LABEL REQUIREMENTS.  
(MIN TEXT SIZE, 2D BARCODE MIN PIXEL SIZE, ETC)

|                                                                                                                                |           |                      |         |                                                                                                                                    |                |
|--------------------------------------------------------------------------------------------------------------------------------|-----------|----------------------|---------|------------------------------------------------------------------------------------------------------------------------------------|----------------|
| REFERENCE                                                                                                                      |           | N/A                  |         |                                                                                                                                    |                |
| PART MUST COMPLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD WSS-M99P9999-A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT |           |                      |         |                                                                                                                                    |                |
| DRAFTED IN ACCORDANCE WITH FORD MOTOR COMPANY ENGINEERING CAD AND DRAFTING STANDARDS VERSION 30                                |           |                      |         |  3RD ANGLE PROJ DIMENSIONS ARE IN MILLIMETERS |                |
| CAD TYPE                                                                                                                       | CAD LOC.  | CAD FILE             |         |                                                                                                                                    | DTMC IS MASTER |
| X-OTHER                                                                                                                        | TC        | FNA-5467420-A-DWG-01 |         |                                                                                                                                    | SIZE           |
| PLANT CODE                                                                                                                     | LINE CODE | OPER. NO.            | BT. NO. | STATION                                                                                                                            | N/A            |
| N/A                                                                                                                            | N/A       | N/A                  | N/A     | N/A                                                                                                                                | N/A            |
| PLANT NAME                                                                                                                     | DEPT. NO. | DESIGN               | SCALE   | SHT                                                                                                                                | 1              |
| N/A                                                                                                                            | N/A       | CDSID                | 1 : 1   | OF                                                                                                                                 | 1              |
| TITLE/PART NAME                                                                                                                |           |                      |         |                                                                                                                                    |                |
| LABEL RF CERTIFICATION                                                                                                         |           |                      |         |                                                                                                                                    |                |
| DRAWING/PART NO.                                                                                                               |           |                      |         |                                                                                                                                    | N/A            |
| FNA-5467420-AA-DWG-01                                                                                                          |           |                      |         |                                                                                                                                    |                |
|                                           |           | FORD MOTOR COMPANY   |         |                                                                                                                                    |                |

| LTRS                |          |          |          | REVISIONS |  |  |  |
|---------------------|----------|----------|----------|-----------|--|--|--|
| ORIGINATOR          | CHECKER  | ENGR APP | MATL APP |           |  |  |  |
| RELEASED            |          |          |          |           |  |  |  |
| AELE E 13697099 007 |          |          |          | 20190408  |  |  |  |
| ADAV1268            | JHOLDEN1 | GSHERWAL | SDRAHE11 |           |  |  |  |

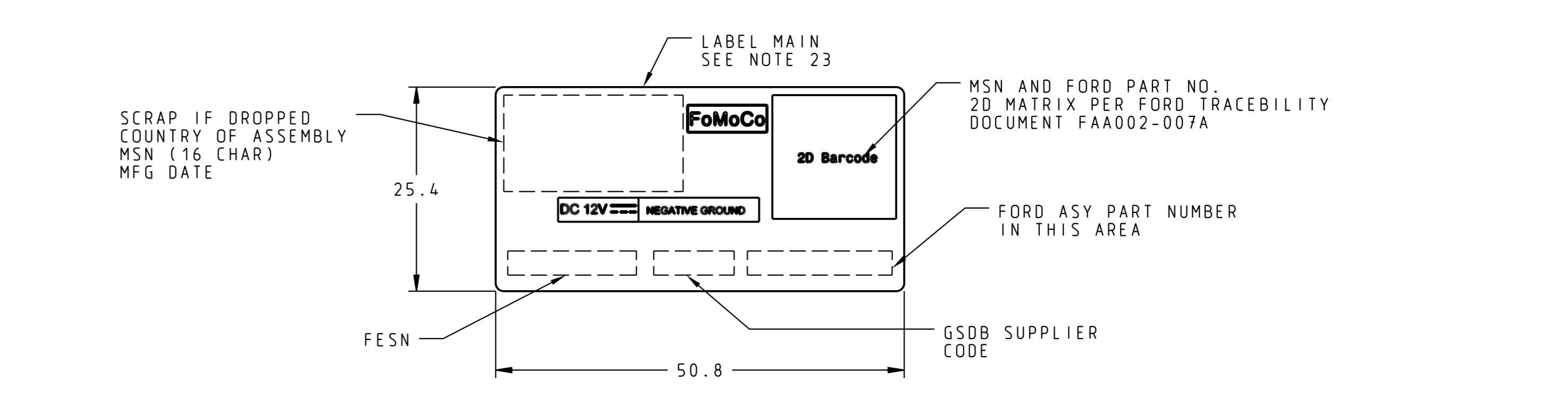
| QTY | ITEM | SUPPLIER PART NO.   | FORD PART NO. | PART NAME                 | MATERIAL                        | MATERIAL FINISH                  | HEAT TREATMENT          |
|-----|------|---------------------|---------------|---------------------------|---------------------------------|----------------------------------|-------------------------|
| 1   | 1    | FMC2H-FNA3890381-AB | PIA           | ENCLOSURE, CASTING W/ FIP | AL A380<br>ASTM B85/B85M        | N/A                              | N/A                     |
| 1   | 2    | FMC2H-FNA3917254-AA | PIA           | WIFI ANT COVER            | LEXAN EXL1414 BLACK             | NON-VISIBLE                      | N/A                     |
| 1   | 3    | FMC2H-FNA3890386-AA | PIA           | BT ANTENNA COVER          | LEXAN EXL1414 BLACK             | NON-VISIBLE                      | N/A                     |
| 1   | 4    | FMC2H-PDP-63207-907 | PIA           | PCB ASY                   | N/A                             | N/A                              | N/A                     |
| 1   | 5    | FMC2H-FNA3890388-AA | PIA           | COVER SHEETMETAL          | SAEJ403 1008-1010               | ZINC COATED PER SAE J1562 EG 20G | N/A                     |
| 11  | 6    | FMC2H-FNA3890401-AA | PIA           | SCREW                     | STEEL/ZINC<br>WA-950            | CLEAR TRIVALENT                  | HRC 45<br>CASE HARDENED |
| 1   | 7    | FMC2H-FNA4203777-AA | PIA           | LABEL, MAIN               | POLYESTER, WHITE<br>BRADY B-423 | N/A                              | N/A                     |
| 1   | 8    | FMC2H-FNA5467420-AA | PIA           | RF CERT LABEL             | POLYESTER, WHITE<br>BRADY B-423 | N/A                              | N/A                     |
| 1   | 9    | FMC2H-FNA4084420-AA | PIA           | SUPPLIER TRACKING LABEL   | POLYESTER, WHITE<br>BRADY B-423 | N/A                              | N/A                     |

| ORIGINATOR          | CHECKER  | ENGR APP | MATL APP |
|---------------------|----------|----------|----------|
| RELEASED            |          |          |          |
| AELE E 13697099 007 |          |          | 20190408 |
| ADAV1268            | JHOLDEN1 | GSHERWAL | SDRAHE11 |

| REFERENCE                                                                                                                      | N/A                            |
|--------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| PART MUST COMPLY WITH RESTRICTED SUBSTANCE MANAGEMENT STANDARD WSS-M99P9999-A1 TO SAFEGUARD HEALTH, SAFETY AND THE ENVIRONMENT |                                |
| DRAFTED IN ACCORDANCE WITH FORD MOTOR COMPANY ENGINEERING CAD AND DRAFTING STANDARDS VERSION 3                                 |                                |
| CAD TYPE: E-CAT1A5                                                                                                             | CAD FILE: MUST-14G681-B-DWG-01 |
| OPER. NO.: N/A                                                                                                                 | DRAWING: MUST-14G681-BC        |
| DESIGN: PMAS                                                                                                                   | TITLE: ECU COR ASY MOD         |
| CHECKED: SAFETY MFG USE                                                                                                        | SCL CONN M/MEDIA               |
| SCALE: 1:1                                                                                                                     | DATE: 20180913                 |
|                                                                                                                                | DIVISION: N/A                  |
|                                                                                                                                | PLANT: N/A                     |

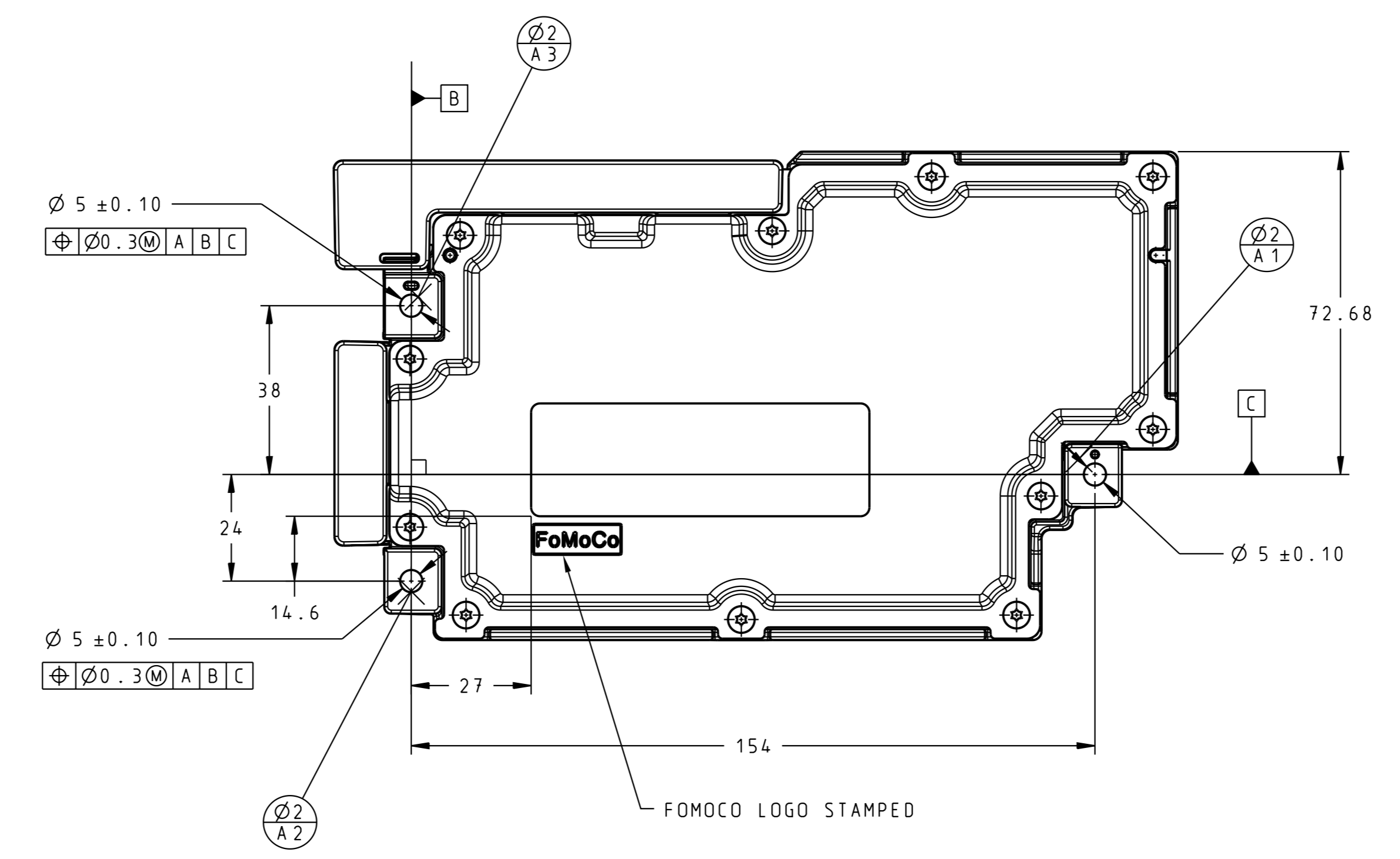
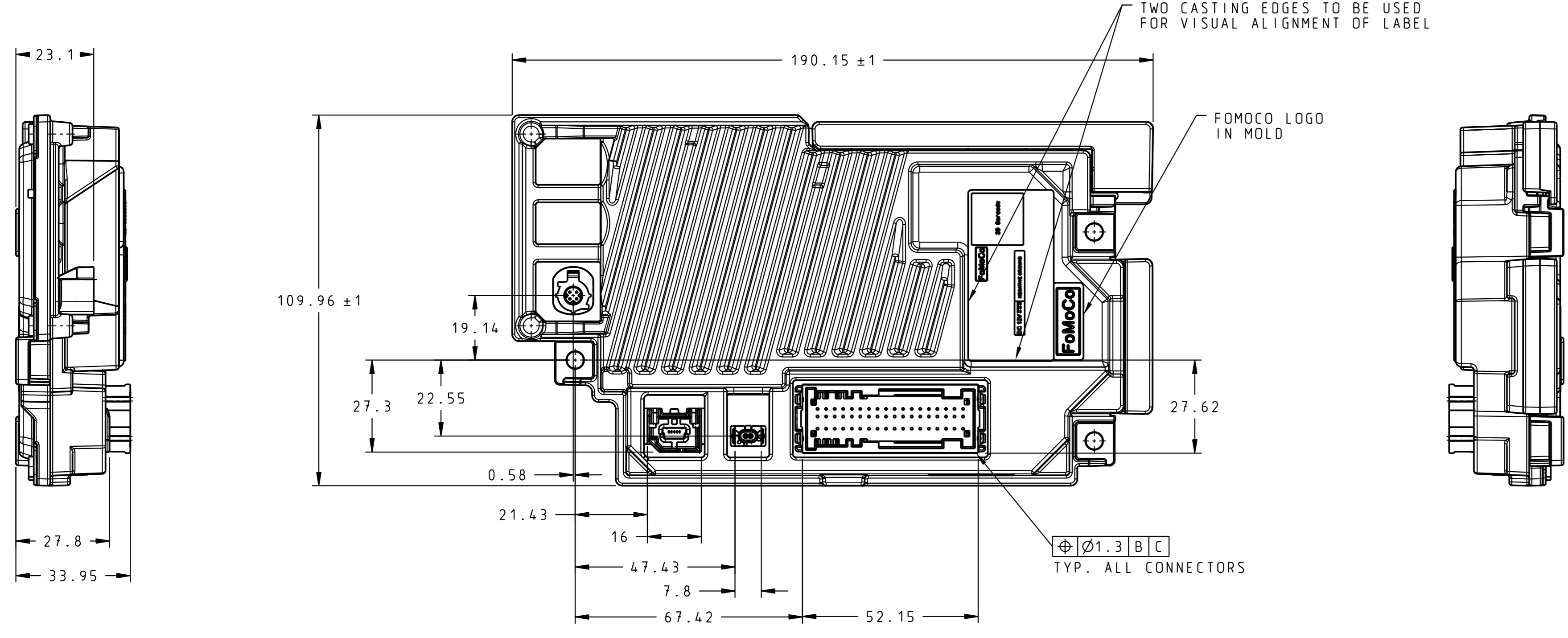
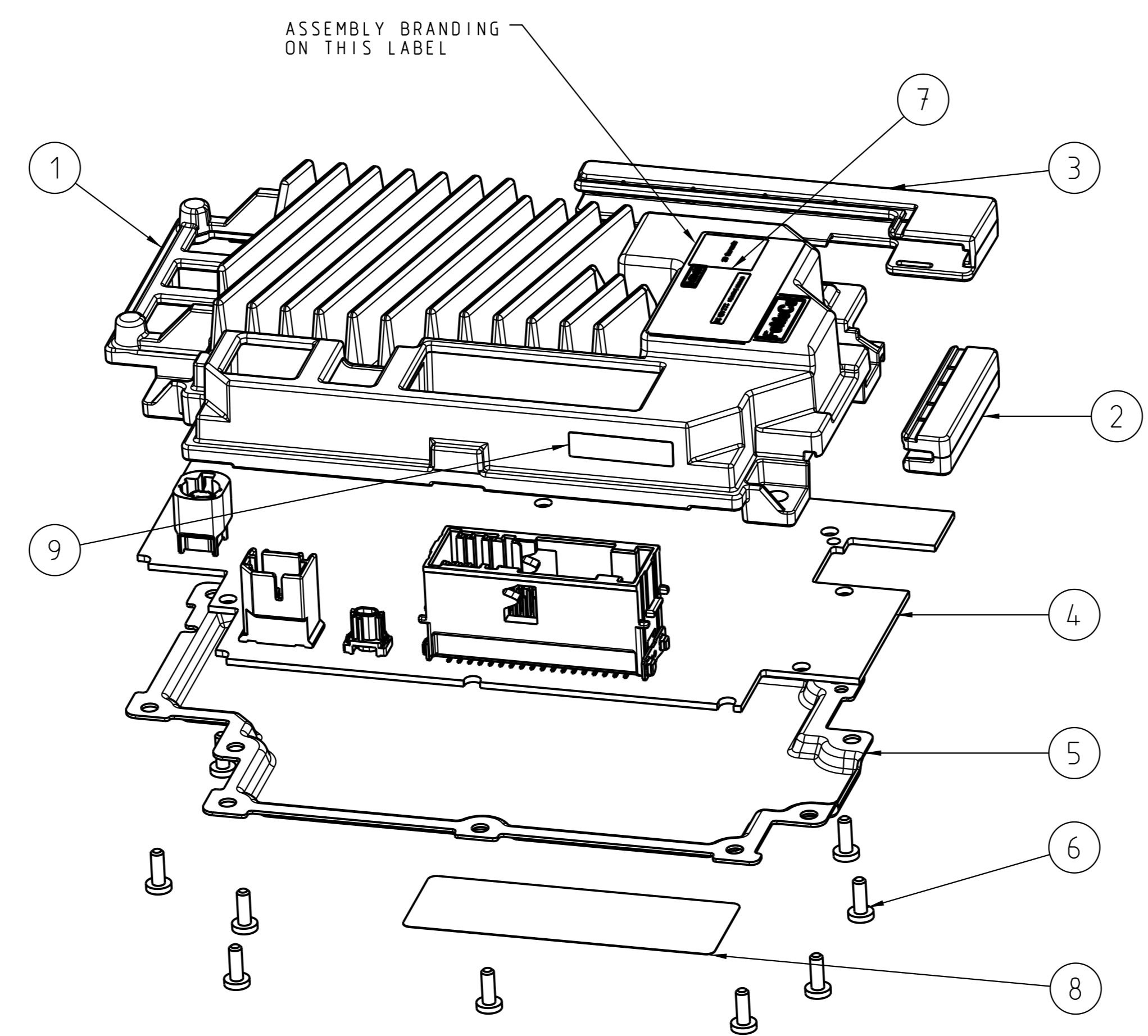
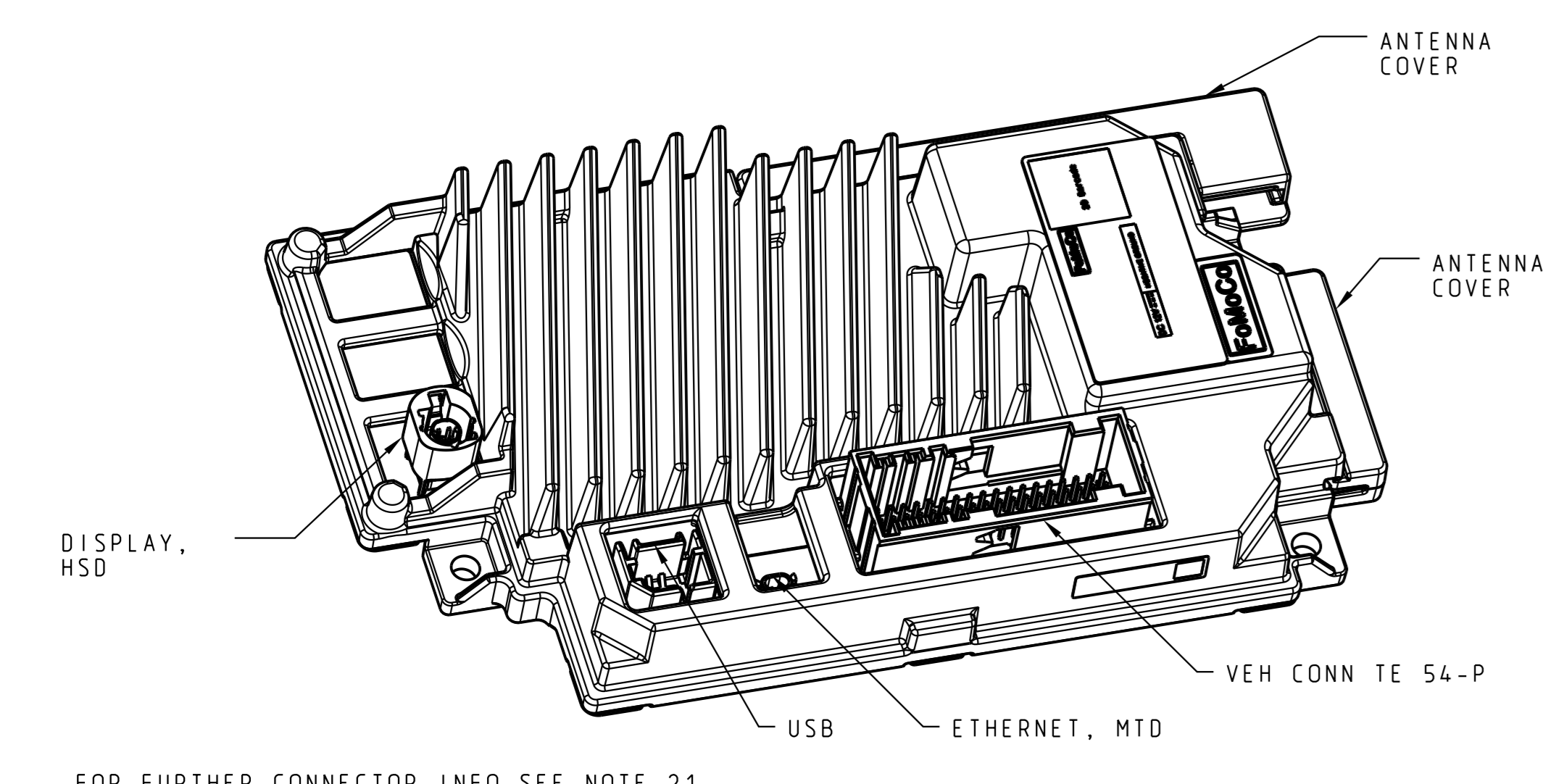
| QTY | ITEM | SUPPLIER PART NO.   | FORD PART NO. | PART NAME                 | MATERIAL                        | MATERIAL FINISH                  | HEAT TREATMENT          |
|-----|------|---------------------|---------------|---------------------------|---------------------------------|----------------------------------|-------------------------|
| 1   | 1    | FMC2H-FNA3890381-AB | PIA           | ENCLOSURE, CASTING W/ FIP | AL A380<br>ASTM B85/B85M        | N/A                              | N/A                     |
| 1   | 2    | FMC2H-FNA3917254-AA | PIA           | WIFI ANT COVER            | LEXAN EXL1414 BLACK             | NON-VISIBLE                      | N/A                     |
| 1   | 3    | FMC2H-FNA3890386-AA | PIA           | BT ANTENNA COVER          | LEXAN EXL1414 BLACK             | NON-VISIBLE                      | N/A                     |
| 1   | 4    | FMC2H-PDP-63207-907 | PIA           | PCB ASY                   | N/A                             | N/A                              | N/A                     |
| 1   | 5    | FMC2H-FNA3890388-AA | PIA           | COVER SHEETMETAL          | SAEJ403 1008-1010               | ZINC COATED PER SAE J1562 EG 20G | N/A                     |
| 11  | 6    | FMC2H-FNA3890401-AA | PIA           | SCREW                     | STEEL/ZINC<br>WA-950            | CLEAR TRIVALENT                  | HRC 45<br>CASE HARDENED |
| 1   | 7    | FMC2H-FNA4203777-AA | PIA           | LABEL, MAIN               | POLYESTER, WHITE<br>BRADY B-423 | N/A                              | N/A                     |
| 1   | 8    | FMC2H-FNA5467420-AA | PIA           | RF CERT LABEL             | POLYESTER, WHITE<br>BRADY B-423 | N/A                              | N/A                     |
| 1   | 9    | FMC2H-FNA4084420-AA | PIA           | SUPPLIER TRACKING LABEL   | POLYESTER, WHITE<br>BRADY B-423 | N/A                              | N/A                     |



GENERAL NOTES (UNLESS OTHERWISE SPECIFIED):

- SOURCES FOR MATERIALS DEFINED BY FORD MATERIAL SPECIFICATIONS SHALL BE SELECTED FROM THE FORD MOTOR COMPANY ENGINEERING MATERIAL APPROVED SOURCE LIST.
- OTHER THAN UNITED STATES MANUFACTURED COMPONENTS THE COUNTRY OF ORIGIN MUST BE MARKED IN ENGLISH.
- CHANGES TO DESIGN, COMPOSITION OR PROCESSING OF THE PART PREVIOUSLY APPROVED FOR PRODUCTION REQUIRE PRIOR APPROVAL FROM FORD MOTOR COMPANY PRODUCT ENGINEERING. REFER TO ISO/TS 16949.
- CHANGES TO SUPPORTING DOCUMENTS SHALL BE MANAGED USING THE DOCUMENTS REQUIRED CHANGE AND APPROVAL PROCESS.
- FOR CURRENT RELEASE STATUS, SEE THE WERS ENGINEERING NOTICE.
- PART MUST BE FREE OF BURRS, FLASH, AND SHARP EDGES THAT MAY AFFECT THE FUNCTION, SAFE HANDLING, AND INSTALLATION OR REMOVAL OF THE PART.
- PART AS RECEIVED AT THE FORD PLANT OR SERVICE PART PACKAGER/WAREHOUSE SHALL BE FREE OF ANY CORROSION ALIGNED WITH THE FORD CUSTOMER SERVICE DIVISION (FCSD) PACKAGING AND SHIPPING GUIDE. CORROSION INHIBITORS OR FOREIGN MATERIALS DETRIMENTAL TO THE INSTALLATION OR FUNCTION OF THE PART MUST BE REMOVABLE BY THE INTENDED CLEANING METHOD.
- INJECTION MOLDED PARTS MUST CONFORM TO: INJECTION MOLDING MANUFACTURING STANDARD W-IMMS DATED 2015-12-1.
- PLASTIC PARTS ≥ 100 g OR RUBBER PARTS ≥ 200 g SHALL HAVE THE MATERIAL CODE APPEAR ON THE PHYSICAL PART PER ISO 1043-1 AND ISO 1043-2 (REFERENCING ISO 11469, PLASTIC) AND/OR ISO 1629 (RUBBER).
- DIMENSIONING AND TOLERANCING. ALL DIMENSIONS IN MM.
  - A. ALL DIMENSIONS TO PROJECTED THEORETICAL SHARP CORNERS.
  - B. UNTOLERANCED CHARTED DIMENSIONS ARE BASIC
  - C. UNLESS OTHERWISE SPECIFIED, ALL FORM CONTOURS  $\square 2.0A|B|C$
  - D. FOR UNDIMENSIONED PART DEFINITION; SEE ASSOCIATED DATABANKED ELECTRONIC DATA.
  - E. FOR THE PURPOSE OF GEOMETRIC TOLERANCING, ALL DIMENSIONAL INFORMATION CONTAINED IN THE CAD MODEL IS BASIC (THEORETICAL).
- GENERAL TOLERANCES: UNLESS OTHERWISE SPECIFIED
  - 0<DIM<10 = +/- 0.25 MM
  - 10<DIM<50 = +/- 0.35 MM
  - 50<DIM<120 = +/- 0.40 MM
  - 120<DIM<300 = +/- 0.45 MM
  - +/- 2.0 ° FOR ALL ANGULAR DIMS EXCEPT DRAFT.
- SUPPLIER SPECIFICATION MAY APPLY AT PPAP - ALL SUPPLIER SPECIFICATION SHALL BE APPROVED FOR USE BY FORD MOTOR COMPANY PRODUCT ENGINEERING AND SHALL BE PRODUCED UPON REQUEST.
- MUST CONFORM TO EMBRITTLEMENT AVOIDANCE FORD ENGINEERING MATERIAL SPECIFICATION WSS-M99A3-A.
- MUST CONFORM TO CONTROL OF HEAT TREATING PROCESSES AND AUXILIARY EQUIPMENT, FORD MANUFACTURING STANDARD W-HTX.

CONNECTOR DESCRIPTION



- MUST CONFORM TO SYNC-4 GENERATION ENGINEERING SPECIFICATION: FORD NEXT GENERATION INFOTAINMENT ENGINEERING SPEC. VSEM #: VDOC004194
- ENVIRONMENTAL:
  - A. MUST CONFORM TO CETP 00.0E412 ENVIRONMENTAL REQUIREMENTS (NON-EMC) FOR VEHICLE ELECTRICAL AND ELECTRONICS SYSTEMS
  - B. MUST COMPLY WITH EMC TEST SPECIFICATION FMC1278
- SYNC-4 MATERIALS:
  - A. MAIN CASTING: DIE CAST ALUMINUM A380 PER ASTM B85/B85M
  - B. WIFI / BLUETOOTH ANTENNA COVERS: LEXAN EXL1414 BLACK
  - C. MAIN PCB: FR4/COPPER
  - D. REAR COVER: SAE J403 1008-1010 ZINC COATED PER SAE J1562 EG 20G20G
  - E. COVER SCREW: M3.0 X 0.5MM ZINC COATED STEEL (0.005MM MIN THICKNESS ZINC/CLEAR TRIVALENT)
  - F. MAIN HOUSING LABEL:
    - MATERIAL: BRADY B-423 OR EQUIVALENT 0.0762 MM
    - LABEL PERFORMANCE SPEC: PSA, INTERIOR WSS-M99P41-A31
- FOR ITEMS 2 AND 3: MAXIMUM ALLOWABLE REGRIND CONTENT 0% BY WEIGHT.
- SYNC 4.0 MODULE WEIGHT SHALL BE 580G +/- 10
- PART MUST CONFORM TO LATEST LEVEL OF USCAR-30 SEE USCAR FOOTPRINT DRAWING 999-U-USB-201
- CONNECTOR INFO: REFER TO DEVICE TRANSMITTAL DOCUMENT DT-MUST-14G670
- FOR CORE MODULE MANUFACTURING ASY REQUIREMENTS, SEE: MFG-ASY DRAWING (REF#: FNA-389073-DWG-01)
- LABEL MAIN. THE PART NUMBER PRINTED ON THE LABEL WILL BE OF THE MODULE WITH SOFTWARE (MUST-14G670-xxx).