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THIS DRAWING IS A CONTROLLED DOCUMENT  
ANT-916-WRT-RPS-LLL

1

2

8

3

4

6

7

10

10.0  
[.39]

7.8  
[.31]

82.5±0.5  
[3.25±.02]

Ø 19.0  
[.75]

14.4  
[.57]

ADHESIVE PATCH  
WITH PULL TAB

CABLE LENGTH  
SEE TABLE

5 YELLOW

DESIGN TABLE

| LINX PART NUMBER | CABLE LENGTH    |
|------------------|-----------------|
| ANT-916-WRT-RPS  | 216±2mm [8.50]  |
| L000945-01       | 500±5mm [19.68] |

THIS DRAWING IS A CONTROLLED DOCUMENT.

DIMENSIONS:  
mm [inch]

MATERIAL  
SEE TABLE

FINISH  
SEE TABLE

TOLERANCES UNLESS OTHERWISE SPECIFIED:

|        |         |
|--------|---------|
| 0 PLC  | ± 0.5   |
| 1 PLC  | ± 0.2   |
| 2 PLC  | ± 0.13  |
| 3 PLC  | ± 0.050 |
| 4 PLC  |         |
| ANGLES | ± 30'   |

DWN  
JHAGER  
9/21/20

CHK  
CLEWIS  
9/22/20

APVD  
CMURPHY  
9/22/20

PRODUCT SPEC  
108-161079

APPLICATION SPEC  
-

WEIGHT  
12.5 g

CUSTOMER DRAWING

SCALE 1.5:1

SHEET 1 OF 1

REV D

TE Connectivity

ANTENNA 916MHz WRT DOME  
RG174 VAR LENGTH RP-SMA CONNECTOR

ITEM NUMBER

DESCRIPTION

|    |                                       |
|----|---------------------------------------|
| 10 | GASKET FOAM ADH ACRYLIC/ACRYLIC       |
| 9  | NUT OCT M11X1 POM BLACK               |
| 8  | SHRINK TUBE 2:1 POLYOL BLACK          |
| 7  | CONNECTOR RP-SMA TYPE GOLD/BRASS      |
| 6  | CABLE COAX RG174U BLACK               |
| 5  | GUIDE CABLE 916MHZ ABS YELLOW         |
| 4  | COUNTERPOISE 916MHZ ELEM NICKEL/BRASS |
| 3  | BASE THREADED M11X1 ABS BLACK         |
| 2  | ELEMENT 916MHZ COIL SWC               |
| 1  | COVER ELEMENT ABS BLACK               |

REV

DESCRIPTION

DATE

APPV

|   |                                                                                                                                                                                          |                    |               |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|---------------|
| B | ADJUSTED COUNTERPOISE SIZE PER DESIGN CHANGE. CHANGED DIMENSIONAL POINT ON U.FL CONNECTION. UNITS WAS INCHES PRIMARY. ADJUSTED TOLERANCES TO SUIT MFG CAPABILITY. ADDED MHF4 CAPABILITY. | JHAGER<br>5/7/2021 | DV<br>11/1/21 |
| C | UPDATED DESIGN TO REDUCE TABULATION VARIABLES. DRWG WAS ANT-916-WRT-CCC-X                                                                                                                | JHAGER<br>3/4/2022 | CM            |
| D | UPDATED TABLE TO ADD 500mm CONFIGURATION                                                                                                                                                 | 4/12/2024          | HL            |

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ALL DIMENSIONS ARE IN MILLIMETERS [in].

2. DIMENSIONS APPLY AFTER FINISHING.

3. ALL MATERIALS, PRODUCTS AND PROCESSES MUST MEET REQUIRMENTS OF TE CONNECTIVITY ENVIRONMENTAL STANDARD TEC-138-702 AND CONTAIN NO BANNED OR RESTRICTED SUBSTANCES. NO REACH SVHC SHALL BE CONTAINED ABOVE THE THRESHOLD DEFINED IN ANNEX "A" OF TEC-138-702 DOCUMENT AT LATEST REVISION.

4. ANTENNA QUALIFIED AND TESTED IAW 108-161079 INTERNAL TEST PLAN DOCUEMNT AT LATEST REVISION.

5. ELECTRICAL DATA SHOWN FOR REFERENCE ONLY. SEE LINX DATA SHEET FOR COMPLETE ELECTRICAL PROPERTIES:

6. 1. CENTER FREQUENCY 916 MHZ

7. 2. 50Ω IMPEDANCE

8. 3. VSWR <2 TYP @ CENTER

9. MECHANICAL:

10. 1. USE TEMPERATURE: -40°C - +80°C

11. 2. INSTALLATION TEMPERATURE: +10° - +40°C

12. 3. STORAGE TEMPERATURE: +20° @ 50%RH

13. 4. BULKHEAD PLASTIC NUT TORQUE: NTE 4.0kgf/cm [5in/lbs]

14. 5. Ø.425" [10.8mm] RECOMMENDED INSTALL HOLE SIZE

15. 6. CABLE MINIMUM BEND RADIUS: 10.2mm

16. 7. MAX PANEL THICKNESS: 4.7mm [.188"]

17. 8. INTERFACE: WITH SMA TYPE REVERSE POLARITY CONNECTORS FOR USE WITH ADHESION PROMOTOR 3M N210 OR EQUIVLANT FOR WIDEST RANGE OF SUBSTRATE MATERIAL AND FINISH COMPATABILITY.

18. 8. PACK INDIVIDUALLY AND PLACE IN LOT BAGS OF 50. BOX 5 LOT BAGS PER CARTON PER TEC-107-115 SECTION 5 AND LABEL PER SECTION 6 FOR SHIPMENT.

3306-7 (3/13)

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