



**Mueller Systems**

## **MiNode6 RADIO FINISHED GOODS LABEL**

**P/N 130-0034-005**

This label is applied at the 890- Top assembly level of the MiNode6, and is affixed to the exterior of the node housing during final assembly. Refer to the MiNode6 top level assembly drawing (895-0146-001) for label placement guidance.

The finished goods label content shall include the MSW- ordering code number for the node, its FCC and IC ID numbers, and other information printed in human readable format, as shown in FIGURE 2. It shall also include the Node ID number, which must be printed in human readable and 2D Bar Coded formats.

The Node ID is a unique 8 digit number which is used for traceability of nodes during manufacture. It also serves as the node's Mi.Net address during network communications.

### **Node ID assignment:**

- A unique Node ID number must be assigned to each PCBA during manufacture.
- The Mueller Systems Supply Chain shall supply each CM with an appropriate range of Node ID numbers specific to the type of PCBA being manufactured
- The assigned Node ID number must appear in human readable and 2D barcode formats, on a self-adhesive label that's printed and applied to the PCBA prior to board level test.
- The DCOM6 PCBA 2D barcode must be scanned at the start of the board level test sequence, to obtain the Node ID that will be programmed into that board
- The PCBA 2D barcode label must also be scanned as part of the node final assembly process, in order to obtain the Node ID number that will be printed on that node's finished goods label

### **PCBA 2D Bar Code Read**

The DCOM6 PCBA Bar Code label contains a two-dimensional barcode matrix comprised of black and white "cells", which may be read with a 2D capable scanner. This barcode consists of 3 separate fields, with an ASCII "space" character used as a delimiter between them.

The unit's Node ID is contained in the first of these three fields, and consists of 8 ASCII formatted decimal digits as shown in Figure 1 below. The content of the two remaining fields has no relevance to the finished goods label content, and may be discarded.

Field #1

05030015

Node ID

**FIGURE 1**

The first 2 digits of the Node ID identify the node type. The last 6 digits of the Node ID are sequence numbers, which are sequentially assigned and uniquely identify each PCBA manufactured.

The Node ID depicted in FIGURE 1 is: **05030015**.

**Label Specifications for MiNode6:**

**Material:** 2 mil Gloss WHITE Polyester (Thermal Transfer) base w/2 mil Acrylic Adhesive that offers 3-5 year outdoor durability. Will not rub off under a 50% alcohol/water solution or equivalent process. Able to withstand outside exposure to -40C, rain and direct sunlight

**Thermal Transfer printing:** Resin ribbon or equivalent, Black

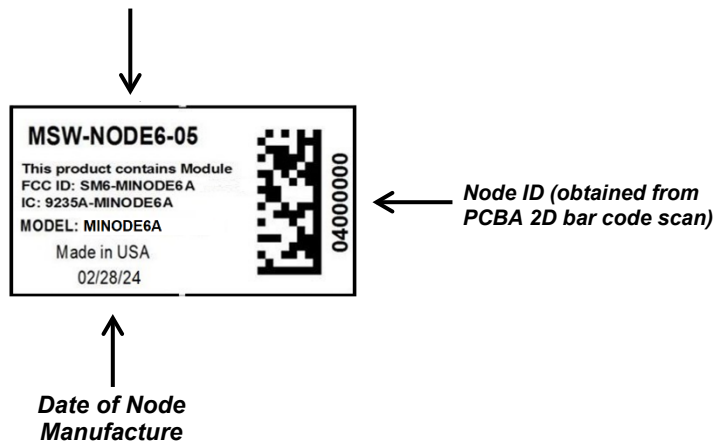
**Dimensions:** 1.4” wide by 0.7” high

**Bar Code format:** 2D Datamatrix Rectangle, full 128 Ascii, ECC200, Density .028 very low.

**Text Size:**

- Node ID: 5pt Arial, Bold
- FCC information: 4pt Arial, Bold
- MSW number: 6pt Arial, Bold (best fit)
- Date Code: 3p Arial, Bold
- MADE IN XXX: 3p Arial, Bold

***Obtain MSW ordering code number to be printed on Finished Goods Label from the Work Order that accompanies the node build***



**FIGURE 2**

*Image shown for reference only – not printed to scale (DCOM6 with 5ft wire version shown)*

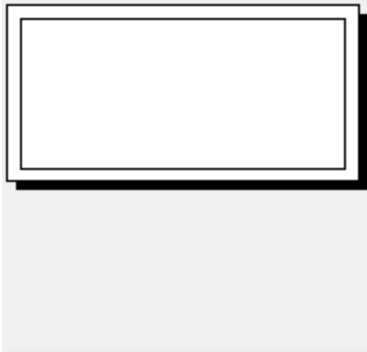
***The Product Name and Node ID (SN) shown in Figure 2 is subject to change based on the content of the DCOM6 barcode label and the work order for the build***

**NOTE:** Depending on the location of where this product is assembled and tested, the label will contain the Human Readable text "MADE IN XXX" as shown where XXX represents the country where the plant is located.

Options are listed below:

- MADE IN USA
- MADE IN MEX (MEXICO)

**Label dimensional details:**



Page Size: 1.4 x 0.7 in

Label Size: 1.3 x 0.6 in

**Label stock details**



**TZe541**

18mm (0.7") Black on White tape for P-Touch 8m (26.2 ft)