



## Labeling and Marking Requirements

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Triad RF Systems Proprietary

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## Revision History

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# 1. Overview

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This document defines the requirements and specifications for:

- Labeling of printed circuit board assemblies (PCBAs) and the antistatic bag (ESD Bag) containing the PCBA.
- Marking of fabricated items such as aluminium housings, covers, and brackets.

## 2. Labeling of PCBAs and ESD Bag

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### 2.1 PCBA Labeling

#### 2.1.1 PCBA Label Location

Label location if required shall be as specified in the PCBA assembly drawing (AD\_ASSY).

#### 2.1.2 PCBA Label Information

The PCBA label shall contain the following information:

	<b>Format</b>	<b>Example</b>
Production Date	YYWW	2120
Triad Serial Number	#####	02345
Production Location Code	NN	01
<b>Composite Label Information</b>	YYWW#####NN	<b>21200234501</b>

The Triad Serial Numbers shall be provided in the associated purchase order (PO). The serial number count shall match the PO quantity and will not accommodate additional quantity for yield that a supplier may require. Additional labeling for use by the supplier which is present on the finished item must be approved by Triad RF Systems.

The Production Location Code shall be provided by Triad RF Systems in the associated PO.

### 2.1.3 PCBA Label Format and Size

The PCBA label shall be the QR Code format and 0.25 x 0.25 inches (example shown below).



5:1 (for reference)



1:1

### 2.1.4 PCBA Label Material

The label stock and ribbon shall be one of the following:

Label Stock	Ribbon	Manufacturer	Manufacturer Site
B-473	R4900	Brady	<a href="https://www.bradyid.com/">https://www.bradyid.com/</a>
TTL-124-403-10	TTRR-D	Identco	<a href="https://identco.com/">https://identco.com/</a>

### 2.1.5 PCBA Label Part Number (Triad internal use)

For the purposes of identifying and managing the PCBA label in Triad design packages, the PCBA label has been assigned Triad part number 470-096. This number is for Triad internal use only and may be ignored by the PCBA supplier if it appears in the provided drawing package.

## 2.2 ESD Bag Labeling

### 2.2.1 ESD Bag Label Location

All PCBAs shall be transported in an individual ESD Bag. The ESD Bag label shall be placed approximately centered on the bag.

### 2.2.2 ESD Bag Label Information

The ESD bag label shall contain the Triad Serial Number (only) as defined in section (2.1.2 PCBA Labeling Information).

### 2.2.3 ESD Bag Label Format and Size

The ESD Bag label shall be the Barcode format and approximately 1.0 x 0.5 inches (Example shown below).



2:1 (for reference)



1:1

## 2.2.4 ESD Bag Label Material

The label stock and ribbon shall be one of the following:

Label Stock	Ribbon	Manufacturer	Manufacturer Site
B-473	R4900	Brady	<a href="https://www.bradyid.com/">https://www.bradyid.com/</a>
TTL-138-403-10	TTRR-D	Identco	<a href="https://identco.com/">https://identco.com/</a>

## 2.3 Marking of Fabricated Items

### 2.3.1 Item Marking Location

Marking location if required shall be as specified in the Item drawing (DWG\_).

### 2.3.2 Item Marking Information

Item marking shall contain the following information:

	Format	Example
Item Number	<i>Up to 15 alphanumeric</i>	T5322Z360
Revision	<i>_REV#</i>	<i>_REV2</i>
Purchase Order Number	<i>#####</i>	05555
Production Date and Lot	<i>YYWWalpha</i>	2120A
<b>Composite Marking</b> (1-row)	Item Number_REVnn:space#####/YYWWalpha	<b>T5322Z360_REV2: 05555/2120A</b>
<b>Composite Marking</b> (2-row)	Item Number_REVnn #####/YYWWalpha	<b>T5322Z360_REV2 05555/2120A</b>

Production date(s) and lot(s) shall be determined by the supplier. Starting with “A”, a single letter shall be used to indicate unique lots within a production day. What constitutes a unique lot shall be per the discretion of the supplier.

All other information shall be as defined by the purchase order.

### **2.3.3 Item Marking Methods**

Marking shall be done by mechanical or laser etching/engraving.

Marking shall be human-readable up to the distance of 1 foot and without the use of magnification.

The supplier shall determine the following parameters based on the specified marking location:

- Character size
- Character font type
- Depth of etching/engraving
- 1-row or 2-row marking format