

## **Industry Definitions for the Condition of Electronic Components and Packaging**

### NEW:

1. Electronic components that have not been previously used in any capacity.
2. Components that are free of any physical defects such as scratches, test marks, third party markings, programs or bent leads. The leads on NEW parts should be in pristine condition; this does not mean refurbished, if the leads have been re-tinned/refurbished, they should be classified as refurbished.
3. New components should be packaged in the original manufacturer's packaging (tubes, trays, reels, or as specified by the manufacturer). This does not mean the original factory box OR factory-sealed.
4. Components in tubes and in trays should have the same date code, lot code and country of origin. Components on a reel should have the same date code, lot code and country of origin unless otherwise specified on the original factory label. (i.e., as was packaged by the original manufacturer). A distributor can sell more than one date code in a shipment, however all components in a single tube, tray or reel, etc., should contain consistent date code, lot code, and country of origin.
5. New components do not need to be factory-sealed in order to meet the industry standard definition of NEW; however, moisture sensitive and static sensitive components should be packaged in the proper MSL and ESD packaging material.

### FACTORY-SEALED:

1. Electronic components that have not been previously used and that meet all of the specifications of the industry definition of NEW and which are contained in the original manufacturer's sealed packaging. This includes but is not limited to original factory tubes, reels, trays, bags, labels, antistatic bags, etc.
2. Components should be supplied in the original factory box when possible, but components do not have to be sold in the factory box in order to meet the definition of FACTORY-SEALED.
3. All FACTORY-SEALED components should have consistent date codes, lot codes and country of origin, unless specified otherwise on the original factory label and unless packaged otherwise at the factory.

### UNUSED: (Also referred to as New Surplus):

1. Electronic components that have not been previously used (meaning the parts have never been electrically charged nor have they ever been placed on a board).
2. A shipment of unused components can contain tubes, reels or trays of mixed date codes, lot codes, and country of origin.
3. Unused components may be sold in third-party packaging (i.e. reels, tubes or trays).
4. Unused components should be guaranteed to meet the full manufacturer's specifications when tested.
5. Unused components may have minor scratches or other physical defects as a result of handling.
6. Leads should be in good condition and should not be refurbished.
7. Unused components should be packaged in unused third-party or factory packaging.
8. Unused components should be free of any programs nor have been programmed outside of the manufacturer.

### USED (also referred to as Pull(s), Pull(ed), or Refurbished):

1. Components identified as USED are parts that have been electrically charged and subsequently pulled or removed from a socket or other electronic application.
2. USED parts should have full leads, unless otherwise specified.
3. USED parts may be sold in third-party packaging or in bulk packaging and may consist of numerous date codes, lot codes, and country of origin.
4. USED parts may have physical defects such as scratches, slightly bent leads, test dots, faded markings, chemical residue or other signs of use.
5. USED parts may be sold with a limited warranty.
6. USED programmable components may still contain programs or remnants of programs not completely removed from the component which could affect the device's future use and functionality.
7. USED parts that are sold as refurbished should meet the Industry Definition of Refurbished or should be sold simply as USED or PULLED.

#### REFURBISHED:

1. Components that have been brightened, freshened, polished or renovated in an effort to restore them to a like new condition.
2. Refurbished components have had their leads realigned and have been re-tinned to give the lead a shiny new finish.
3. Components that have not been re-tinned should be classified as Used NOT Refurbished.
4. Programmable, refurbished components should be erased and should not contain programs.
5. Refurbished material should be sold in the manufacturer's recommended ESD and MSL compliant packaging. The packaging may not be factory original packaging, but may be third-party packaging.
6. Components that have re-marked to replace the original marking, and the marking is consistent with manufacturing history, are REFURBISHED/REMARK. Refer to COUNTERFEIT.2 below.

#### BULK:

1. Bulk is a term used to describe components that are being shipped loosely in boxes or bags.
2. A term used by Franchise Distribution to describe large quantity shipments of material packaged in tubes, trays or on reels (this definition of the term is not frequently used by independent distribution).

#### COUNTERFEIT (also referred to as remarks):

1. Any component that is marked, identified, or labeled with any part number or manufacturer that falsely identifies the component as the true manufacturer and complete part number of the component.
2. Components that are remarked following a cleaning process to recondition the parts to usable condition are referred to as REFURBISHED/REMARK as long as the marking is consistent with the true manufacturer and part number. Refer to REFURBISHED.6 above.

#### REMARK:

1. Any components on which the original manufacturer's labeling or marking on the individual components has been removed and replaced are referred to as REMARK.

2. UNUSED, USED, and REFURBISHED components may be classified as REMARK as a suffix to the condition (i.e. UNUSED/REMARK, etc.).
3. Remarked components have had the traceability of the devices removed so manufacturer recalls, engineering changes, etc. are difficult to identify.
4. Remarked components should carry a warranty from the seller.
5. Remarked components should at least be decapsulated to determine the true manufacturer.
6. Date codes, lot codes, and country of origin on REMARK components should be considered as invalid.