



Science.  
Applied to Life.™

Electronics Materials Solutions Division

# 3M™ Universal Cover Tape (UCT) 2688A application procedure

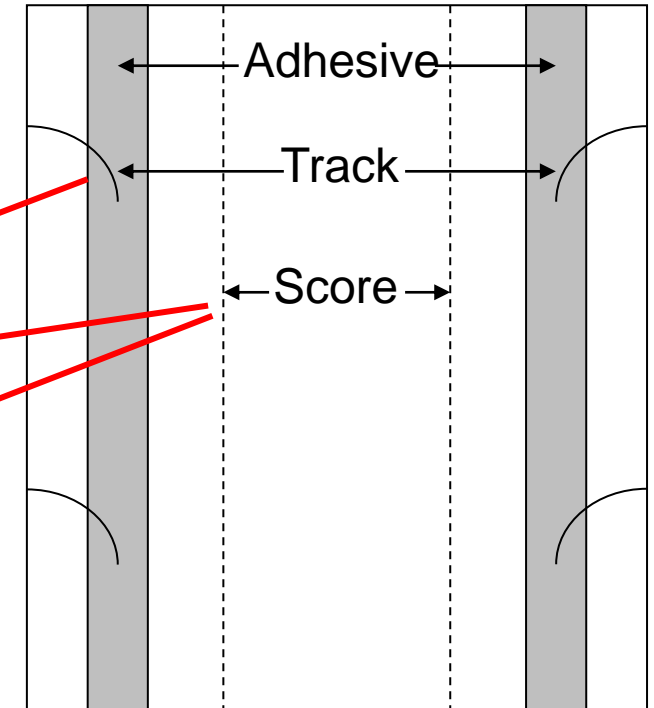
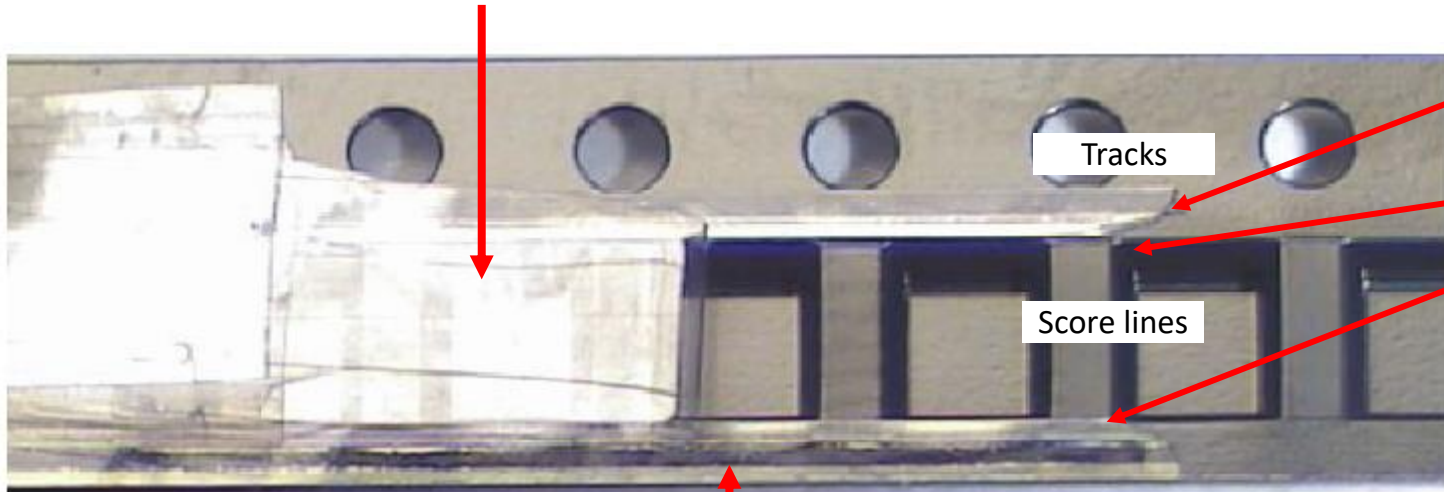
January 2019 (updated)



# Peeling design and mechanism of UCT

## Unique peeling design

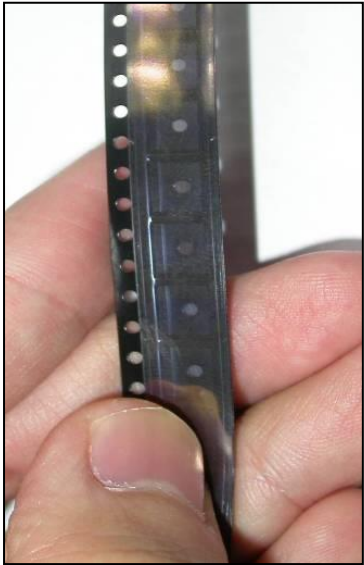
- Only the middle portion of the tape will be peeled off along the score lines at sides
- Create a very uniform peeling with narrow peel range



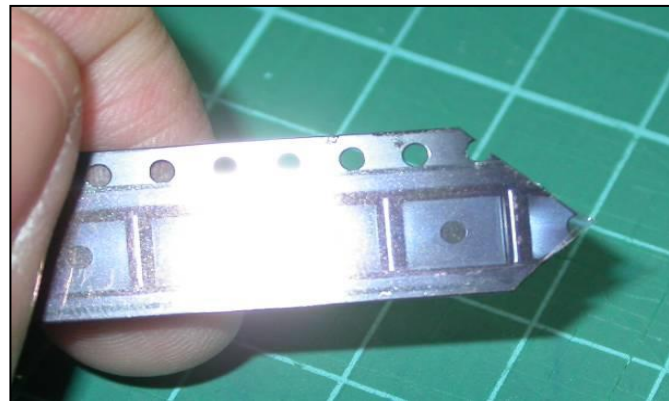
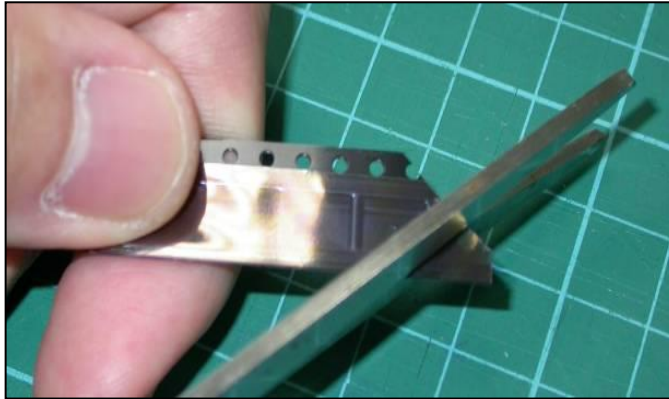
## Adhesive at sides

- Adhesive edges remain adhere to the carrier tape, only the middle part will be removed
- Adhesive free at middle portion, helps reduce risk of adhesive contact or contamination to die surface

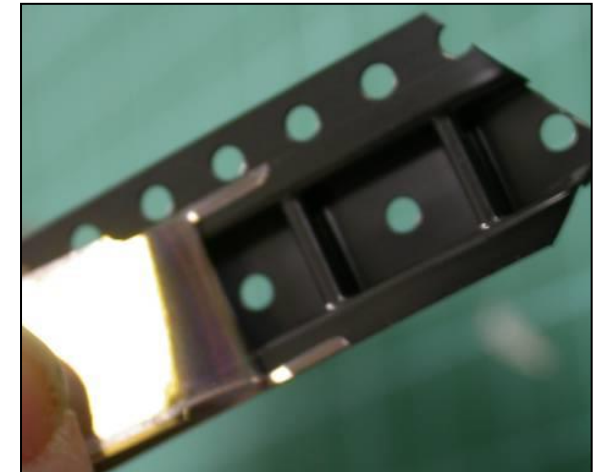
# Recommended UCT initiation and peel direction



1. Hold the carrier tape with sprocket holes on the left hand side.



2. To assist initiation, cut a V-shape on the carrier tape.

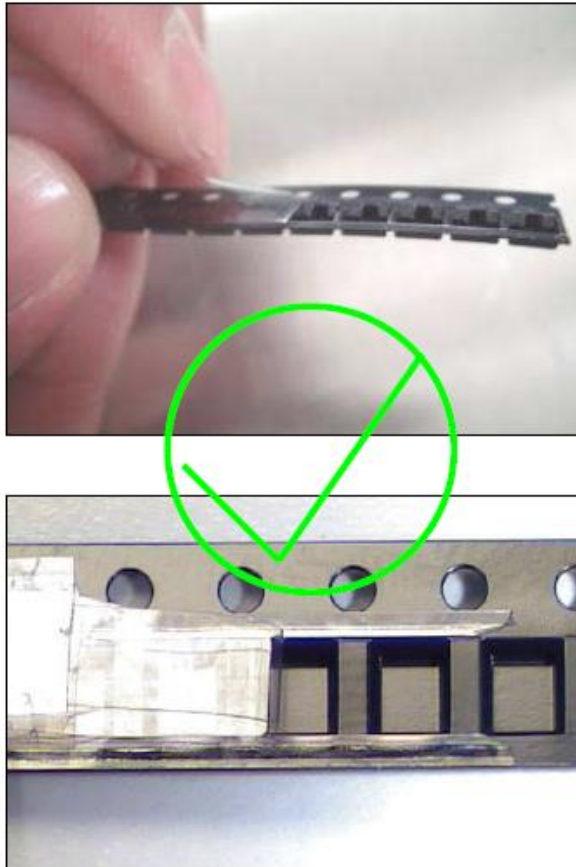


3. Peel off the UCT at 180° angle until the tracks are fully initiated and cut into the center part.

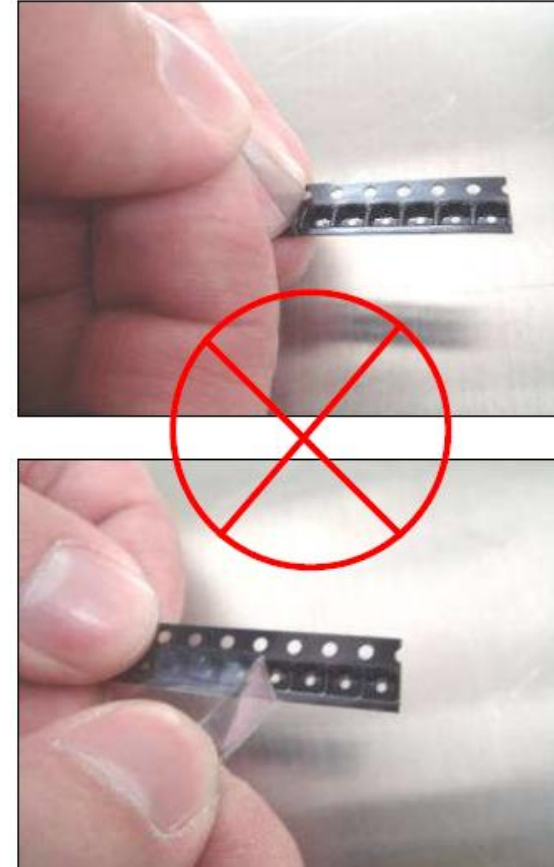
# Recommended UCT peel angle

Keep UCT peel off angle close to 180°, ensure the middle portion start up prior to setup on feeders.

Correct peeling method

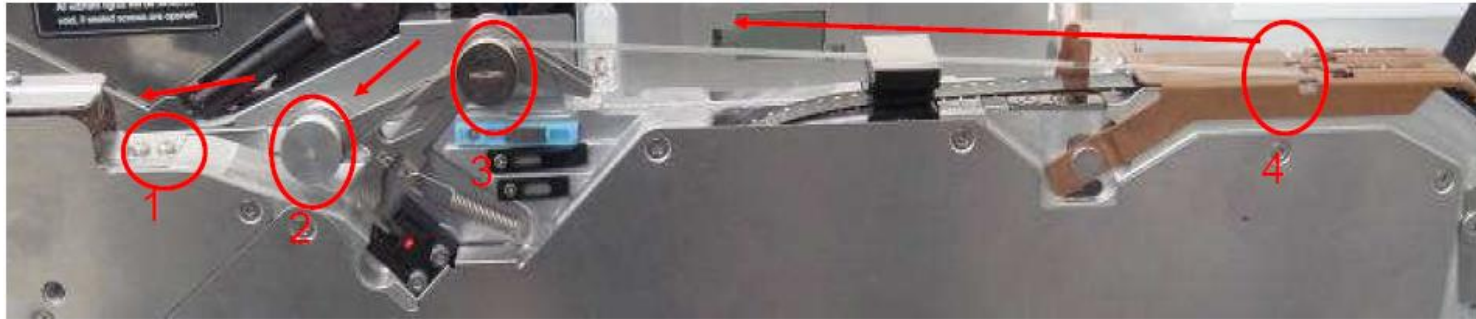


Incorrect peeling method

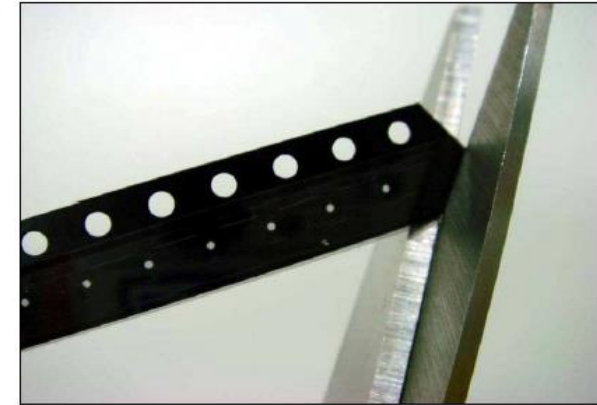


# Recommended process for UCT taped reel feeder loading

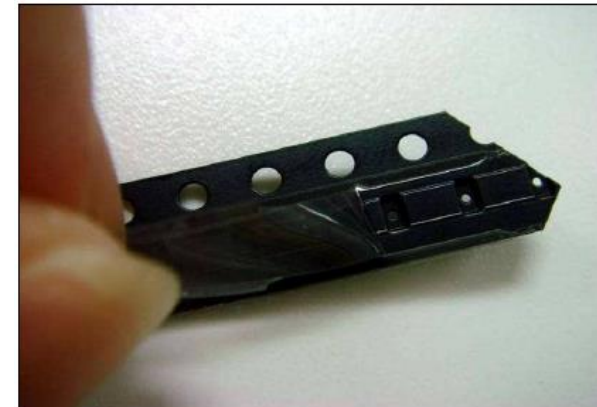
1. Clean every possible position that might have adhesive remaining on the feeder, rollers and gears, etc. Empty the cover tape recycle bin. Clean the feeder tracks.



2. Use a scissor to cut the leader of UCT taped reel into a 'V' shape



3. Peel off the UCT. The middle portion initiates through the tracks and along the score line





# Recommended process for UCT taped reel feeder loading (continued)

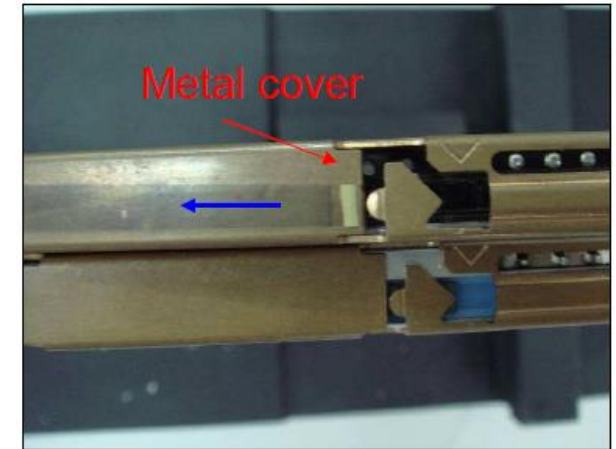
4. Insert the tape into the feeder track.



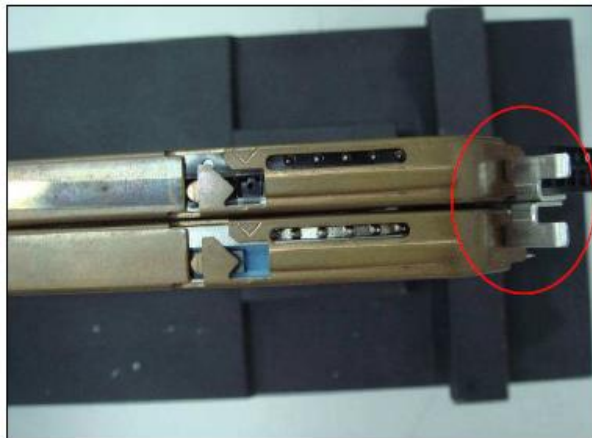
5. Set the carrier tape to the feeder sprocket gear (index gear).



6. Pull back the cover tape through the feeder metal cover.



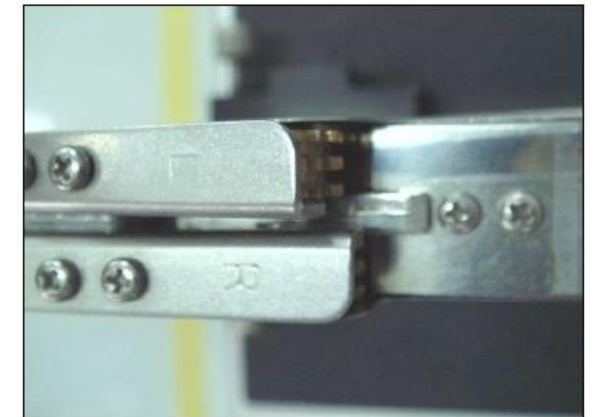
7. Lock the metal cover



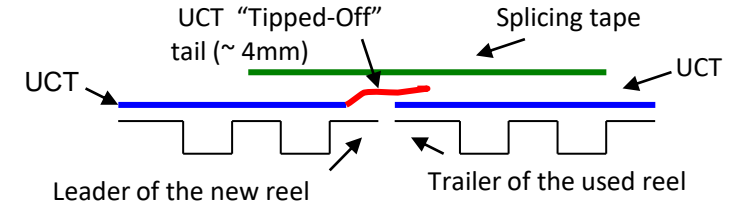
8. Index the feeder, leave enough cover tape length to the cover tape gears



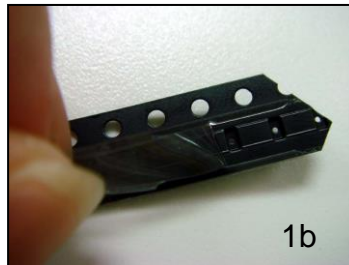
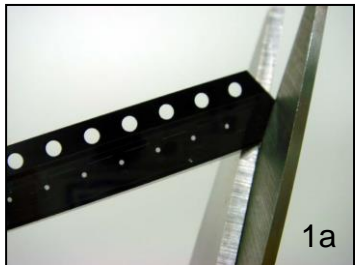
9. Insert cover tape into the cover tape gears. Ensure the cover tape locked by the gears & no defects during indexing



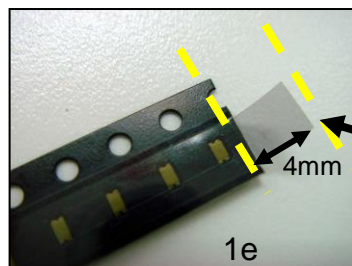
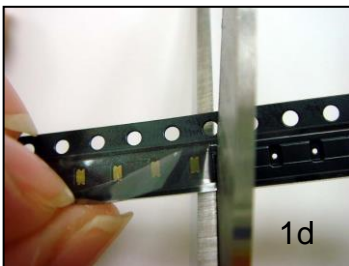
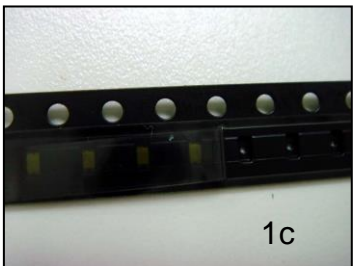
# Recommended procedure: New reel start up for reel to reel splicing at SMT machine



## 1. Start –up procedure for leader of the new reel

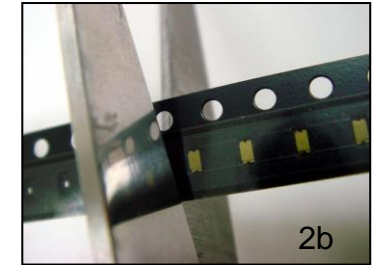
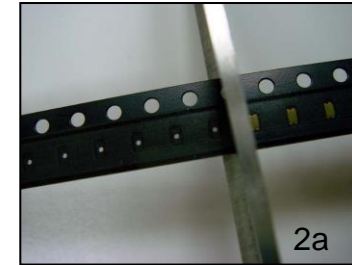


Use a scissor to cut the leader of UCT taped carrier into a "V" shaped as shown in the photographs above in Fig 1a & 1b

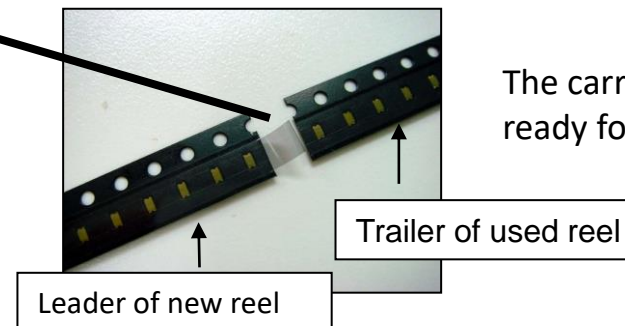


Peel off the UCT to the first component exposed on the leader of the new reel. Cut away the excess carrier tape and leave a UCT "Tipped-Off" (approximately 4mm) as shown in Fig 1e

## 2. Start –up procedure for trailer of the used reel

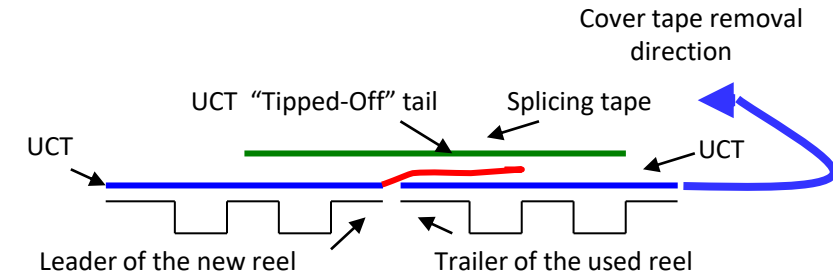
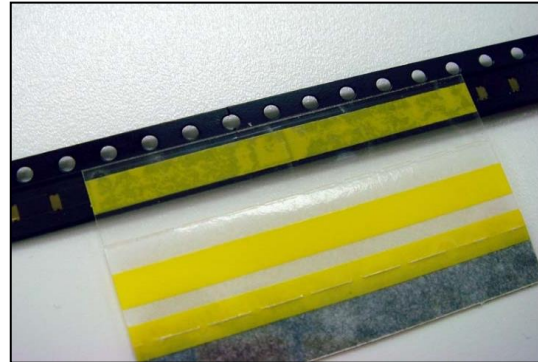
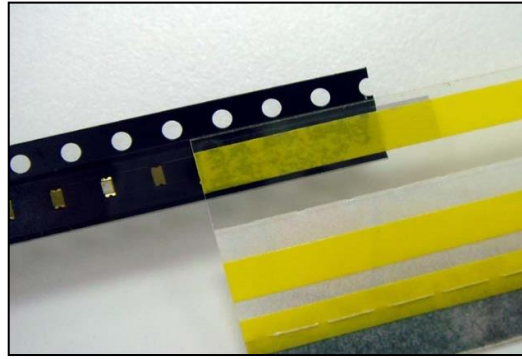
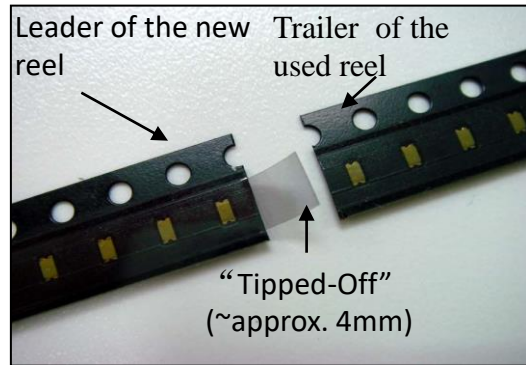


Use a scissor to cut off the empty pocket in the trailer of the used reel to the nearest filled pocket as shown in Fig 2a & 2b



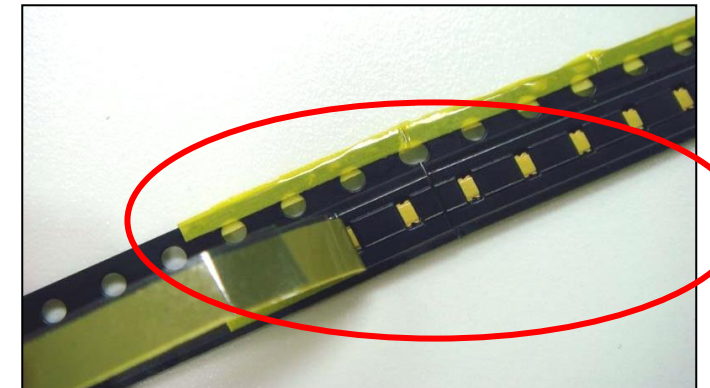
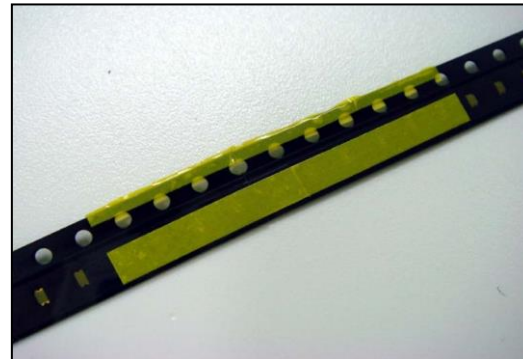
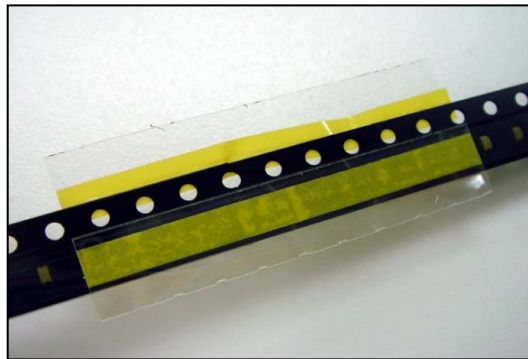


# Recommended procedure: Reel to reel splicing at SMT machine



Joint the leader of the new reel to the trailer of the used reel using a splicing tape as shown in the photographs

Feeders used on SMT machines



Wrap the splicing tape over the UCT taped carrier. The splicing tape will hold the 2 strips of taped carrier firmly through the top, back and sprocket support.

Peel the UCT from the taped carrier, the splicing tape is able to hold on firmly without delamination.



# 3M contacts for information

For any questions:

1. Please feel free to contact 3M local team in your area
2. Or visit 3M website: [www.3M.com/electronics](http://www.3M.com/electronics) (Product for business → Electronics → Semiconductor → Tape and Reel) for more 3M carrier and cover tape product information

# IMPORTANCE NOTICE

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your 3M representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that this product will be free from defects in material and manufacture for a period of one year from the time of manufacture. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M Product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

Electronics Materials Solutions Division  
3M Center, Building 224-3N-11  
St. Paul, MN 55144-1000  
1-800-251-8634 phone  
651-778-4244 fax  
[www.3M.com/electronics](http://www.3M.com/electronics)

3M is a trademark of 3M Company.  
©3M 2019. All rights reserved.



Thank you