Counterfeit Detection Case

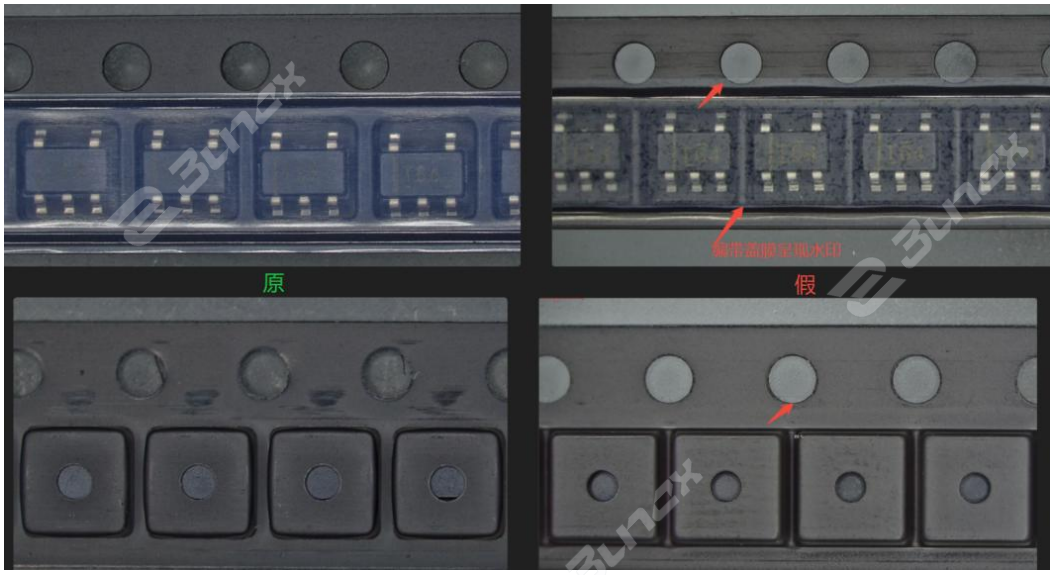
The following images show a counterfeit TI (Texas Instruments) part, model TPS73633MDBVREP.

The original is on the left, and the counterfeit is on the right.

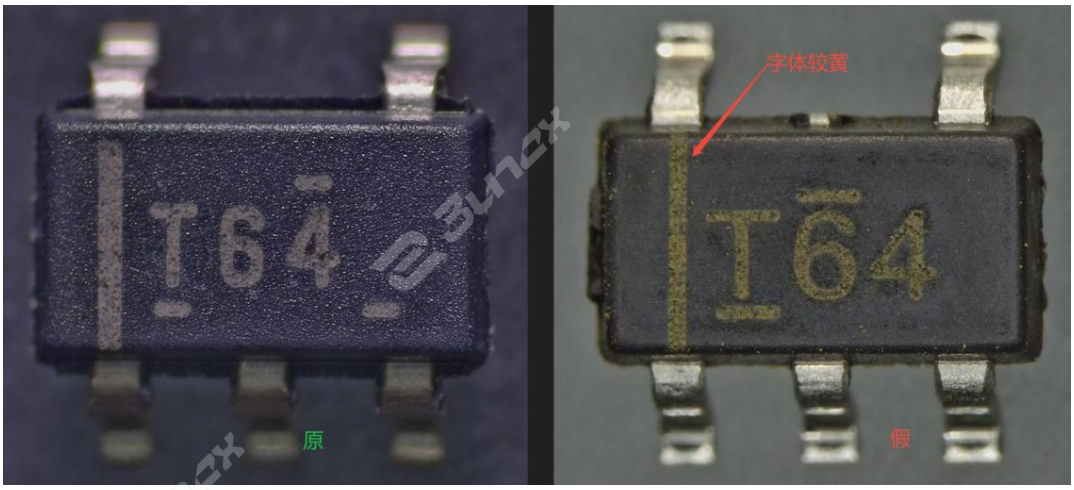
1.First, looking at the label: on the counterfeit, the vertical strokes of the logo letters h ave no splits at the bottom, the PB marking is crooked, and the layout format in the lo wer-right corner does not conform. In contrast, on the original material, the vertical str okes of the logo letters do have splits at the bottom, and the font and layout are correct.



2.The image below shows the carrier tape. The cover film of the carrier tape on the rig ht has a watermark-like texture and partially covers some of the round holes, which is different from the TI cover film normally seen on the left.



3.On the left, the original part has a smaller and whiter font; on the contrary, the coun terfeit on the right has a larger font with a yellowish color.



4.According to the datasheet, the lead finish should be NiPdAu. The original on the le ft is NiPdAu, whereas the physical part on the right is Tin (Sn). This also conflicts wit h the "e4" marking on the label image above.

TPS73633MDBVREP	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	T64



Conclusion: Based on the above comparisons, the part on the right does not meet the original requirements.