

(Q)

Encouraging and expecting the creative involvement of every TI'er.
Listening to our customers and meeting their needs.
Continuously improving our processes, products and services.

How to identify the material?

1.) By Ship Track Code (STC)

The easiest and fastest way to identify the material is to compare the affected Ship Track Codes (STC) in the xls-file (column labeled as "**STC**") with the Ship Track Codes (STC) if the material you have in stock.

This is the Ship Track Code (STC) – the unique tracking number for each shipping container!



Special Notes regarding Labeling Data Fields (not in table 1):

- a. **Texas Instruments Logo** is a mandatory requirement for customs and customer requirements. "CSA" (or UL) logo is automatically printed if material master lists the part as registered to 1 of these agencies.
- b. Made In Country is automatically derived from ASO Country (or CSO Country if product requires no assembly)
- c. RoHS Logo From spec system, indicated material is fully complient to European & China RoHS regulations (when populated with "e"), or has a useful life period before regulated materials may leach from the product (# years will be populated inside, ie; 50).
- d. +5 appended to Date Code A numeric value following a "+" character indicated the shelf life of the product (ie; +5 = Date Code + 5 years shelf life). Standard shelf life is 3 years using standard packing materials.

Left side of Label		Center of Label		Right side of Label	
MS LVL	Moisture Sensitivity Level (If	Pb-Free	Pb with a slash is	(1P)	TI Orderable Part Number
	highest temp is not Level 1, then	Symbol	Pb-free.		
	2 MSLs may be listed)		• An E2, E3, E4,	(Q)	Quantity of units in reel, box,
200	If 2 Data Codes are contained		En is Lead		tube, bag, etc.
200	the newest is listed here		(PD) free, RoHS and	(D)	Datecode (XXWW -
	the newest is listed here		IIG-101	(5)	Year/Week oldest will be listed
20	If 2 Date Codes are contained.		compliant		here if more than one
	the quantity is listed here		• A G2, G3, G4,		
			Gn is Lead	(31T)	QA Lot Number with Assembly
SEAL DT:	Seal date of the units		(Pb) free,		Site Code
			RoHS, JIG-		
FLR LIFE	Floor life of the units once seal is		101 compliant	(4W)	Only 3 possible values ate
	broken		& does not		IKY=TUII turnkey processing,
TMD	Maximum process temperature		Contain Antimony or		atta: label to accompany
	Maximum process temperature		Bromines		material to support customer
OPT	Usually empty but this would be		Diomines		waiver
••••	LBE/Make defined Optional Text.	2D Bar	If any other visual		SWR=Special Work Request
		Code	data on label leads		(Engineering Material).
ITEM:	Usually empty but in some cases	Label	to some level of		
	may be populated with a Die		suspicion, then we	(1T)	Ship Track Code (STC)
	Name or 2 character Year-Month		can scan the 2D	(-)	
	codes to far right which must		code and integrate	(P)	Customer Part #
	match 1 ^{sh} 2 characters of Assy		the data structure	(20)	Die Deutsien of TI Dert Number
			becomes	(2P)	Die Revision of TT Part Number
LBL:	Identifies the original STC		necessary, BusIT	(V)	TI WW ISO Supplier ID
	packing sequence of batch		(Dan Wikander)	.,	(hardcoded & always 0033317)
			should		
(L) TO:	This would have been the Ship-to		authenticate.	(20L)	Location of Wafer Fab
	instruction when material was			<i>(</i> -)	
	packed. It is also not very			(21L)	Country of Wafer Fab
	significant because a reallocation			(221)	Logation of Accomply Site
	after label was printed			(22L)	Location of Assembly Sile
	anei iabei was printeu.			(23L)	Country of Assembly Site
ļ	1	I	1	<u>(/</u>	

Quality at TI begins and ends with you. The Quality Excellence Teams goal is to make sure that you are completely satisfied and that you want to do business with us again and again. We strive toward that goal by continuing to drive improvements in our products and processes that result in better quality, reliability, delivery, service and support for you.



2.) By Lot Trace Code (LTC)

In the case the material in question has been already shipped to your end customers and is removed out of the original TI carrier boxes or mounted on board, so the identification of the material must be done for the Lot Trace Code (LTC) printed on each device top surface. For that, please compare the affected Lot Trace Code (LTC) in the xls-file (column labeled as "AssyLTC") with the 7digit code printed on the devices top surface.

Each TI part is marked with a unique Lot Trace Code (LTC). It might appear in a single line or in double line.

Y = year (e.g. 1 = 2001, 2 = 2002 etc.)	
M = month (e.g. 1 = Jan, 2 = Feb 9 = Sep, A = Oct, B = Nov & C = Dec) LLLL = independent Assembly Number and S = Assembly Site Code.	TI Logo Pin 1 → 0 97BKL2K Lot-Trace Code SN7400N Device Mark
Figure 1 : The part is marked with 2 rows, first containing the Lot Trace Code (LTC) and second line explains the device function.	YMLLLLS DEVICE NAME •
Figure 2 : The part is marked with 3 rows, first explains the device function, second and third line containing the Lot Trace Code (LTC).	DEVICE YMS LLLL
Figure 3 : Is used only on smaller packages where neither Format 1 nor Format 2 is feasible. This format loses the full LTC and decreases lot-genealogy capability (from the individual component) to all lots of a device type in a specific year and month.	
Figure 4 : This format shows only 5digits of the full LTC and decreases lot-genealogy capability. A grade marking can be applied on the left hand side if needed. Sometimes this is hard to see, but tilting the unit slightly make it visible. It may have a different color and shape then the device symbol.	e arde marking DEVICE YMLLL
Figure 5 : Additional special formats are used on very small packages, such as SOT/TO. The format is tailored to the specific package. This package is very small and has space for only 4 characters of marking	Year Code (Binary) Device Code Month Code (Binary)

Depending on manufacturing volumes, many different lot trace codes may be contained within each month. A new year begins in the week of the first Thursday of the year. This information is taken from Mil Spec 1285 and EIA standard 576-A.