

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
LM124AJ/PB	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	Level-1-NA-UNLIM	-55 to 125	LM124AJ
LM124J/PB	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	Level-1-NA-UNLIM	-55 to 125	LM124J
LM224J	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	Level-1-NA-UNLIM	-25 to 85	LM224J
LM2902M/NOPB	Active	Production	SOIC (D) 14	55 TUBE	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	LM2902M
LM2902M/NOPB.B	Active	Production	SOIC (D) 14	55 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LM2902M
LM2902MT/NOPB	Active	Production	TSSOP (PW) 14	94 TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM290 2MT
LM2902MT/NOPB.B	Active	Production	TSSOP (PW) 14	94 TUBE	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM290 2MT
LM2902MTX/NOPB	Active	Production	TSSOP (PW) 14	2500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM290 2MT
LM2902MTX/NOPB.B	Active	Production	TSSOP (PW) 14	2500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 85	LM290 2MT
LM2902MX/NOPB	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	LM2902M
LM2902MX/NOPB.B	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LM2902M
LM2902N/NOPB	Active	Production	PDIP (N) 14	25 TUBE	Yes	Call TI Nipdau	Level-1-NA-UNLIM	-40 to 85	LM2902N
LM2902N/NOPB.B	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	Level-1-NA-UNLIM	-40 to 85	LM2902N
LM324AM/NOPB	Active	Production	SOIC (D) 14	55 TUBE	Yes	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	LM324AM
LM324AM/NOPB.B	Active	Production	SOIC (D) 14	55 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324AM
LM324AMX/NOPB	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	LM324AM
LM324AMX/NOPB.B	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324AM
LM324AN/NOPB	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	Level-1-NA-UNLIM	0 to 70	LM324AN
LM324AN/NOPB.B	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	Level-1-NA-UNLIM	0 to 70	LM324AN
LM324M/NOPB	Active	Production	SOIC (D) 14	55 TUBE	Yes	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	LM324M
LM324M/NOPB.B	Active	Production	SOIC (D) 14	55 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324M
LM324MT/NOPB	Active	Production	TSSOP (PW) 14	94 TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM324 MT
LM324MT/NOPB.B	Active	Production	TSSOP (PW) 14	94 TUBE	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM324 MT
LM324MTX/NOPB	Active	Production	TSSOP (PW) 14	2500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM324 MT

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LM324MTX/NOPB.B	Active	Production	TSSOP (PW) 14	2500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	0 to 70	LM324 MT
LM324MX/NOPB	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	LM324M
LM324MX/NOPB.B	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324M
LM324N/NOPB	Active	Production	PDIP (N) 14	25 TUBE	Yes	Call TI Nipdau	Level-1-NA-UNLIM	0 to 70	LM324N
LM324N/NOPB.B	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	Level-1-NA-UNLIM	0 to 70	LM324N

(1) **Status:** For more details on status, see our [product life cycle](#).

(2) **Material type:** When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

(3) **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.

(4) **Lead finish/Ball material:** Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

(5) **MSL rating/Peak reflow:** The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

(6) **Part marking:** There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "-" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

Important Information and Disclaimer: The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

OTHER QUALIFIED VERSIONS OF LM124-N, LM2902-N :

- Automotive : [LM2902-Q1](#)
- Enhanced Product : [LM2902-EP](#)
- Space : [LM124-SP](#)

NOTE: Qualified Version Definitions:

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product - Supports Defense, Aerospace and Medical Applications
- Space - Radiation tolerant, ceramic packaging and qualified for use in Space-based application