

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
5962-7704301VCA	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-7704301VC A LM124JQMLV	Samples
5962-9950403V9B	ACTIVE	XCEPT	KGD	0	100	RoHS & Green	Call TI	N / A for Pkg Type	-55 to 125		Samples
5962-9950403VCA	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9950403VC A LM124AJQMLV	Samples
77043012A	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	77043012A LM124FKB	Samples
7704301CA	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704301CA LM124JB	Samples
7704301DA	ACTIVE	CFP	W	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704301DA LM124WB	Samples
77043022A	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	77043022A LM124AFKB	Samples
7704302CA	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704302CA LM124AJB	Samples
7704302DA	ACTIVE	CFP	W	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704302DA LM124AWB	Samples
JM38510/11005BCA	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510 /11005BCA	Samples
LM124AFKB	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	77043022A LM124AFKB	Samples
LM124AJ	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	LM124AJ	Samples
LM124AJB	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704302CA LM124AJB	Samples
LM124AWB	ACTIVE	CFP	W	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704302DA LM124AWB	Samples
LM124D	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-55 to 125	LM124	
LM124DR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	LM124	Samples
LM124DRG4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-55 to 125	LM124	Samples

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LM124FKB	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	77043012A LM124FKB	Samples
LM124J	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	LM124J	Samples
LM124JB	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704301CA LM124JB	Samples
LM124W	ACTIVE	CFP	W	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	LM124W	Samples
LM124WB	ACTIVE	CFP	W	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	7704301DA LM124WB	Samples
LM224AD	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-25 to 85	LM224A	
LM224ADR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-25 to 85	LM224A	Samples
LM224ADRE4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-25 to 85	LM224A	Samples
LM224ADRG4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-25 to 85	LM224A	Samples
LM224AN	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-25 to 85	LM224AN	Samples
LM224D	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-25 to 85	LM224	
LM224DR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-25 to 85	LM224	Samples
LM224DRG3	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-25 to 85	LM224	
LM224DRG4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-25 to 85	LM224	Samples
LM224KAD	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-25 to 85	LM224KA	
LM224KADR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-25 to 85	LM224KA	Samples
LM224KADRG4	ACTIVE	SOIC	D	14	2500	TBD	Call TI	Call TI	-25 to 85		Samples
LM224KAN	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-25 to 85	LM224KAN	Samples
LM224KDR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-25 to 85	LM224K	Samples
LM224KN	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-25 to 85	LM224KN	Samples
LM224N	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-25 to 85	LM224N	Samples

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
LM224NE4	ACTIVE	PDIP	N	14	25	TBD	Call TI	Call TI	-25 to 85		Samples
LM2902BAIDR	ACTIVE	SOIC	D	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902BA	Samples
LM2902BAIPWR	ACTIVE	TSSOP	PW	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902BA	Samples
LM2902BIDR	ACTIVE	SOIC	D	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902B	Samples
LM2902BIPWR	ACTIVE	TSSOP	PW	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902B	Samples
LM2902D	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-40 to 125	LM2902	
LM2902DR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	LM2902	Samples
LM2902DRE4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902	Samples
LM2902DRG3	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-40 to 125	LM2902	
LM2902DRG4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902	Samples
LM2902KAVQDR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902KA	Samples
LM2902KAVQDRG4	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-40 to 125	L2902KA	
LM2902KAVQPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902KA	Samples
LM2902KAVQPWRG4	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902KA	Samples
LM2902KD	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-40 to 125	LM2902K	
LM2902KDB	ACTIVE	SSOP	DB	14	80	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902K	Samples
LM2902KDR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902K	Samples
LM2902KN	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 125	LM2902KN	Samples
LM2902KNSR	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902K	Samples
LM2902KNSRG4	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902K	Samples
LM2902KPW	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	-40 to 125	L2902K	
LM2902KPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902K	Samples
LM2902KVQDR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902KV	Samples

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
LM2902KVQDRG4	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	-40 to 125	L2902KV	
LM2902KVQPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902KV	Samples
LM2902KVQPWRG4	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	-40 to 125	L2902KV	
LM2902N	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU SN	N / A for Pkg Type	-40 to 125	LM2902N	Samples
LM2902NE4	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	-40 to 125	LM2902N	
LM2902NSR	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	LM2902	Samples
LM2902PW	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	-40 to 125	L2902	
LM2902PWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L2902	Samples
LM2902PWRE4	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902	Samples
LM2902PWRG3	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	-40 to 125	L2902	
LM2902PWRG4	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	L2902	Samples
LM324AD	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70	LM324A	
LM324ADBR	ACTIVE	SSOP	DB	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324A	Samples
LM324ADR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	LM324A	Samples
LM324ADRG4	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70	LM324A	
LM324AN	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	0 to 70	LM324AN	Samples
LM324ANSR	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324A	Samples
LM324ANSRG4	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324A	Samples
LM324APW	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	0 to 70	L324A	
LM324APWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	L324A	Samples
LM324APWRG4	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	L324A	Samples
LM324BAIDR	ACTIVE	SOIC	D	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LM324BA	Samples
LM324BAIPWR	ACTIVE	TSSOP	PW	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	L324BA	Samples

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
LM324BIDR	ACTIVE	SOIC	D	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LM324B	Samples
LM324BIPWR	ACTIVE	TSSOP	PW	14	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	LM324B	Samples
LM324D	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70	LM324	
LM324DR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	LM324	Samples
LM324DRE4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324	Samples
LM324DRG3	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70	LM324	
LM324DRG4	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324	Samples
LM324KAD	OBSOLETE	SOIC	D	14		TBD	Call TI	Call TI	0 to 70	LM324KA	
LM324KADR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324KA	Samples
LM324KADRG4	ACTIVE	SOIC	D	14	2500	TBD	Call TI	Call TI	0 to 70		Samples
LM324KAN	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	0 to 70	LM324KAN	Samples
LM324KANSR	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324KA	Samples
LM324KAPW	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	0 to 70	L324KA	
LM324KAPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	L324KA	Samples
LM324KDR	ACTIVE	SOIC	D	14	2500	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324K	Samples
LM324KN	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU	N / A for Pkg Type	0 to 70	LM324KN	Samples
LM324KNSR	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324K	Samples
LM324KPW	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	0 to 70	L324K	
LM324KPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	L324K	Samples
LM324N	ACTIVE	PDIP	N	14	25	RoHS & Green	NIPDAU SN	N / A for Pkg Type	0 to 70	LM324N	Samples
LM324NE3	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70	LM324N	
LM324NE4	OBSOLETE	PDIP	N	14		TBD	Call TI	Call TI	0 to 70	LM324N	
LM324NSR	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324	Samples

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
LM324NSRE4	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324	Samples
LM324NSRG4	ACTIVE	SO	NS	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	LM324	Samples
LM324PW	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	0 to 70	L324	
LM324PWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	0 to 70	L324	Samples
LM324PWRE4	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	L324	Samples
LM324PWRG3	OBSOLETE	TSSOP	PW	14		TBD	Call TI	Call TI	0 to 70	L324	
LM324PWRG4	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	L324	Samples
M38510/11005BCA	ACTIVE	CDIP	J	14	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510 /11005BCA	Samples
PLM2902BIDR	ACTIVE	SOIC	D	14	3000	TBD	Call TI	Call TI	-40 to 125		Samples
PLM324BIDR	ACTIVE	SOIC	D	14	3000	TBD	Call TI	Call TI	-40 to 85		Samples

(1) The marketing status values are defined as follows:

ACTIVE: Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design.

PREVIEW: Device has been announced but is not in production. Samples may or may not be available.

OBSOLETE: TI has discontinued the production of the device.

(2) **RoHS:** TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

(3) MSL, Peak Temp. - The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

(5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.

(6) Lead finish/Ball material - Orderable Devices 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.

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, LM124-SP, LM124M, LM2902, LM2902B, LM2902BA :

- Catalog : [LM124](#), [LM124](#)

- Automotive : [LM2902-Q1](#), [LM2902B-Q1](#), [LM2902BA-Q1](#)

- Enhanced Product : [LM2902-EP](#)

- Military : [LM124M](#), [LM124M](#)

- Space : [LM124-SP](#), [LM124-SP](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product

- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects

- Enhanced Product - Supports Defense, Aerospace and Medical Applications

- Military - QML certified for Military and Defense Applications

- Space - Radiation tolerant, ceramic packaging and qualified for use in Space-based application