

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
LM193AH	ACTIVE	TO-99	LMC	8	500	Non-RoHS & Green	Call TI	Level-1-NA-UNLIM	-55 to 125	(LM193AH, LM193AH)	Samples
LM193AH/NOPB	ACTIVE	TO-99	LMC	8	500	RoHS & Green	Call TI	Level-1-NA-UNLIM	-55 to 125	(LM193AH, LM193AH)	Samples
LM193H	ACTIVE	TO-99	LMC	8	500	Non-RoHS & Green	Call TI	Level-1-NA-UNLIM	-55 to 125	(LM193H, LM193H)	Samples
LM193H/NOPB	ACTIVE	TO-99	LMC	8	500	RoHS & Green	Call TI	Level-1-NA-UNLIM	-55 to 125	(LM193H, LM193H)	Samples
LM2903ITL/NOPB	ACTIVE	DSBGA	YZR	8	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	C 03	Samples
LM2903ITLX/NOPB	ACTIVE	DSBGA	YZR	8	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	-40 to 85	C 03	Samples
LM2903M	OBSOLETE	SOIC	D	8		TBD	Call TI	Call TI	-40 to 85	LM 2903M	
LM2903M/NOPB	ACTIVE	SOIC	D	8	95	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 85	LM 2903M	Samples
LM2903MX/NOPB	ACTIVE	SOIC	D	8	2500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 85	LM 2903M	Samples
LM2903N/NOPB	ACTIVE	PDIP	Р	8	40	RoHS & Green	NIPDAU	Level-1-NA-UNLIM	-40 to 85	LM 2903N	Samples
LM293H	ACTIVE	TO-99	LMC	8	500	Non-RoHS & Green	Call TI	Level-1-NA-UNLIM	-25 to 85	(LM293H, LM293H)	Samples
LM293H/NOPB	ACTIVE	TO-99	LMC	8	500	RoHS & Green	Call TI	Level-1-NA-UNLIM	-25 to 85	(LM293H, LM293H)	Samples
LM393M	OBSOLETE	SOIC	D	8		TBD	Call TI	Call TI	0 to 70	LM 393M	
LM393M/NOPB	ACTIVE	SOIC	D	8	95	RoHS & Green	SN	Level-1-260C-UNLIM	0 to 70	LM 393M	Samples
LM393MX	OBSOLETE	SOIC	D	8		TBD	Call TI	Call TI	0 to 70	LM 393M	
LM393MX/NOPB	ACTIVE	SOIC	D	8	2500	RoHS & Green	SN	Level-1-260C-UNLIM	0 to 70	LM 393M	Samples
LM393N/NOPB	ACTIVE	PDIP	Ρ	8	40	RoHS & Green	NIPDAU	Level-1-NA-UNLIM	0 to 70	LM 393N	Samples

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LM393TL/NOPB	ACTIVE	DSBGA	YZR	8	250	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	0 to 70	C 02	Samples
LM393TLX/NOPB	ACTIVE	DSBGA	YZR	8	3000	RoHS & Green	SNAGCU	Level-1-260C-UNLIM	0 to 70	C 02	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 (CI) 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.

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OTHER QUALIFIED VERSIONS OF LM2903-N, LM293-N :

• Automotive : LM2903-Q1

• Enhanced Product : LM293-EP

NOTE: Qualified Version Definitions:

- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product Supports Defense, Aerospace and Medical Applications