

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
LP38691DT-1.8	LIFEBUY	TO-252	NDP	3	75	Non-RoHS & Green	Call TI	Level-1-235C-UNLIM	-40 to 125	LP38691 DT-1.8	
LP38691DT-1.8/NOPB	ACTIVE	TO-252	NDP	3	75	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-1.8	Samples
LP38691DT-2.5/NOPB	ACTIVE	TO-252	NDP	3	75	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-2.5	Samples
LP38691DT-3.3	LIFEBUY	TO-252	NDP	3	75	Non-RoHS & Green	Call TI	Level-1-235C-UNLIM	-40 to 125	LP38691 DT-3.3	
LP38691DT-3.3/NOPB	ACTIVE	TO-252	NDP	3	75	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-3.3	Samples
LP38691DT-5.0/NOPB	ACTIVE	TO-252	NDP	3	75	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0	Samples
LP38691DTX-1.8/NOPB	ACTIVE	TO-252	NDP	3	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-1.8	Samples
LP38691DTX-2.5/NOPB	ACTIVE	TO-252	NDP	3	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-2.5	Samples
LP38691DTX-3.3/NOPB	ACTIVE	TO-252	NDP	3	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-3.3	Samples
LP38691DTX-5.0/NOPB	ACTIVE	TO-252	NDP	3	2500	RoHS & Green	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0	Samples
LP38691QSD-1.8/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L256B	Samples
LP38691QSD-2.5/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L257B	Samples
LP38691QSD-3.3/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L258B	Samples
LP38691QSD-5.0/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L259B	Samples
LP38691QSDX-1.8/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L256B	Samples
LP38691QSDX-2.5/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L257B	Samples
LP38691QSDX-3.3/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L258B	Samples
LP38691QSDX-5.0/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L259B	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
LP38691SD-1.8/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L118B	Samples
LP38691SD-2.5/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L119B	Samples
LP38691SD-3.3/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L120B	Samples
LP38691SD-5.0/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L121B	Samples
LP38691SDX-1.8/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L118B	Samples
LP38691SDX-3.3/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L120B	Samples
LP38691SDX-5.0/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L121B	Samples
LP38693MP-1.8/NOPB	ACTIVE	SOT-223	NDC	5	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJVB	Samples
LP38693MP-2.5/NOPB	ACTIVE	SOT-223	NDC	5	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJXB	Samples
LP38693MP-3.3	LIFEBUY	SOT-223	NDC	5	1000	Non-RoHS & Green	Call TI	Level-1-260C-UNLIM	-40 to 125	LJYB	
LP38693MP-3.3/NOPB	ACTIVE	SOT-223	NDC	5	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJYB	Samples
LP38693MP-5.0/NOPB	ACTIVE	SOT-223	NDC	5	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJZB	Samples
LP38693MPX-1.8/NOPB	ACTIVE	SOT-223	NDC	5	2000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJVB	Samples
LP38693MPX-2.5/NOPB	ACTIVE	SOT-223	NDC	5	2000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJXB	Samples
LP38693MPX-3.3/NOPB	ACTIVE	SOT-223	NDC	5	2000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJYB	Samples
LP38693MPX-5.0/NOPB	ACTIVE	SOT-223	NDC	5	2000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	LJZB	Samples
LP38693QSD-1.8/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L260B	Samples
LP38693QSD-2.5/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L261B	Samples
LP38693QSD-3.3/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L262B	Samples
LP38693QSD-5.0/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L263B	Samples
LP38693QSDX-1.8/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L260B	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
LP38693QSDX-2.5/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L261B	Samples
LP38693QSDX-3.3/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L262B	Samples
LP38693QSDX-5.0/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L263B	Samples
LP38693SD-1.8	LIFEBUY	WSON	NGG	6	1000	Non-RoHS & Green	Call TI	Level-1-260C-UNLIM	-40 to 125	L128B	
LP38693SD-1.8/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L128B	Samples
LP38693SD-2.5/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L129B	Samples
LP38693SD-3.3	LIFEBUY	WSON	NGG	6	1000	Non-RoHS & Green	Call TI	Level-1-260C-UNLIM	-40 to 125	L130B	
LP38693SD-3.3/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L130B	Samples
LP38693SD-5.0/NOPB	ACTIVE	WSON	NGG	6	1000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L131B	Samples
LP38693SDX-3.3/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L130B	Samples
LP38693SDX-5.0/NOPB	ACTIVE	WSON	NGG	6	4500	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	L131B	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.

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OTHER QUALIFIED VERSIONS OF LP38691, LP38691-Q1, LP38693, LP38693-Q1 :

- Catalog : [LP38691](#), [LP38693](#)
- Automotive : [LP38691-Q1](#), [LP38693-Q1](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product
- Automotive - Q100 devices qualified for high-reliability automotive applications targeting zero defects