

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)
LP38691DT-1.8/NOPB	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-1.8
LP38691DT-1.8/NOPB.A	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-1.8
LP38691DT-1.8/NOPB.B	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-1.8
LP38691DT-2.5/NOPB	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-2.5
LP38691DT-2.5/NOPB.A	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-2.5
LP38691DT-2.5/NOPB.B	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-2.5
LP38691DT-3.3/NOPB	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-3.3
LP38691DT-3.3/NOPB.A	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-3.3
LP38691DT-3.3/NOPB.B	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-3.3
LP38691DT-5.0/NOPB	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0
LP38691DT-5.0/NOPB.A	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0
LP38691DT-5.0/NOPB.B	Active	Production	TO-252 (NDP) 3	75 TUBE	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0
LP38691DTX-1.8/NO.A	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-1.8
LP38691DTX-1.8/NOPB	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-1.8
LP38691DTX-2.5/NO.A	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-2.5
LP38691DTX-2.5/NOPB	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-2.5

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)
LP38691DTX-3.3/NO.A	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-3.3
LP38691DTX-3.3/NOPB	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-3.3
LP38691DTX-5.0/NO.A	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0
LP38691DTX-5.0/NO.B	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0
LP38691DTX-5.0/NOPB	Active	Production	TO-252 (NDP) 3	2500 LARGE T&R	Yes	SN	Level-2-260C-1 YEAR	-40 to 125	LP38691 DT-5.0
LP38691QSD-1.8/NO.A	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L256B
LP38691QSD-1.8/NOPB	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L256B
LP38691QSD-2.5/NO.A	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L257B
LP38691QSD-2.5/NOPB	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L257B
LP38691QSD-3.3/NO.A	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L258B
LP38691QSD-3.3/NOPB	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L258B
LP38691QSD-5.0/NO.A	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L259B
LP38691QSD-5.0/NOPB	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L259B
LP38691QSDX-1.8/NO.A	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L256B
LP38691QSDX-1.8/NOPB	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L256B
LP38691QSDX-2.5/NO.A	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L257B
LP38691QSDX-2.5/NOPB	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L257B
LP38691QSDX-3.3/NO.A	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L258B
LP38691QSDX-3.3/NOPB	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L258B
LP38691QSDX-5.0/NO.A	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L259B
LP38691QSDX-5.0/NOPB	Active	Production	WSO (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L259B
LP38691SD-1.8/NOPB	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L118B
LP38691SD-1.8/NOPB.A	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L118B
LP38691SD-1.8/NOPB.B	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L118B
LP38691SD-2.5/NOPB	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L119B
LP38691SD-2.5/NOPB.A	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L119B
LP38691SD-2.5/NOPB.B	Active	Production	WSO (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L119B

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)
LP38691SD-3.3/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L120B
LP38691SD-3.3/NOPB.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L120B
LP38691SD-3.3/NOPB.B	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L120B
LP38691SD-5.0/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L121B
LP38691SD-5.0/NOPB.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L121B
LP38691SD-5.0/NOPB.B	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L121B
LP38691SDX-1.8/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L118B
LP38691SDX-1.8/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L118B
LP38691SDX-3.3/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L120B
LP38691SDX-3.3/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L120B
LP38691SDX-5.0/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L121B
LP38691SDX-5.0/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L121B
LP38693MP-1.8/NOPB	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJVB
LP38693MP-1.8/NOPB.A	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJVB
LP38693MP-1.8/NOPB.B	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJVB
LP38693MP-2.5/NOPB	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJXB
LP38693MP-2.5/NOPB.A	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJXB
LP38693MP-3.3/NOPB	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJYB
LP38693MP-3.3/NOPB.A	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJYB
LP38693MP-3.3/NOPB.B	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJYB
LP38693MP-5.0/NOPB	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJZB
LP38693MP-5.0/NOPB.A	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJZB
LP38693MP-5.0/NOPB.B	Active	Production	SOT-223 (NDC) 5	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJZB
LP38693MPX-1.8/NO.A	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJVB
LP38693MPX-1.8/NOPB	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJVB
LP38693MPX-2.5/NO.A	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJXB
LP38693MPX-2.5/NOPB	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJXB
LP38693MPX-3.3/NO.A	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJYB
LP38693MPX-3.3/NOPB	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJYB
LP38693MPX-5.0/NO.A	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJZB
LP38693MPX-5.0/NO.B	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJZB

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)
LP38693MPX-5.0/NOPB	Active	Production	SOT-223 (NDC) 5	2000 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	LJZB
LP38693QSD-1.8/NO.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L260B
LP38693QSD-1.8/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L260B
LP38693QSD-2.5/NO.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L261B
LP38693QSD-2.5/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L261B
LP38693QSD-3.3/NO.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L262B
LP38693QSD-3.3/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L262B
LP38693QSD-5.0/NO.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L263B
LP38693QSD-5.0/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L263B
LP38693QSDX-1.8/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L260B
LP38693QSDX-1.8/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L260B
LP38693QSDX-2.5/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L261B
LP38693QSDX-2.5/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L261B
LP38693QSDX-3.3/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L262B
LP38693QSDX-3.3/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L262B
LP38693QSDX-5.0/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L263B
LP38693QSDX-5.0/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L263B
LP38693SD-1.8/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L128B
LP38693SD-1.8/NOPB.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L128B
LP38693SD-1.8/NOPB.B	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L128B
LP38693SD-2.5/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L129B
LP38693SD-2.5/NOPB.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L129B
LP38693SD-3.3/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L130B
LP38693SD-3.3/NOPB.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L130B
LP38693SD-3.3/NOPB.B	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L130B
LP38693SD-5.0/NOPB	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L131B
LP38693SD-5.0/NOPB.A	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L131B
LP38693SD-5.0/NOPB.B	Active	Production	WSON (NGG) 6	1000 SMALL T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L131B
LP38693SDX-3.3/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L130B
LP38693SDX-3.3/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	NIPDAU SN	Level-1-260C-UNLIM	-40 to 125	L130B
LP38693SDX-5.0/NO.A	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L131B

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)
LP38693SDX-5.0/NOPB	Active	Production	WSON (NGG) 6	4500 LARGE T&R	Yes	SN	Level-1-260C-UNLIM	-40 to 125	L131B

⁽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 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