

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)
TLC69602RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69602
TLC69602RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69602
TLC69602YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69602
TLC69602YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69602
TLC69604RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69604
TLC69604RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69604
TLC69604YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69604
TLC69604YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69604
TLC69608RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69608
TLC69608RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69608
TLC69608YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69608
TLC69608YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69608
TLC69612RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69612
TLC69612RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69612
TLC69612YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69612
TLC69612YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69612
TLC69614RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69614
TLC69614RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69614
TLC69614YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69614
TLC69614YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69614
TLC69618RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69618
TLC69618RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69618
TLC69618YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69618
TLC69618YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69618
TLC69652RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69652
TLC69652RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69652
TLC69652YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69652
TLC69652YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69652
TLC69654RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69654

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)
TLC69654RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69654
TLC69654YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69654
TLC69654YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69654
TLC69658RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69658
TLC69658RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69658
TLC69658YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69658
TLC69658YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69658
TLC69662RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69662
TLC69662RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69662
TLC69662YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69662
TLC69662YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69662
TLC69664RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69664
TLC69664RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69664
TLC69664YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69664
TLC69664YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69664
TLC69668RTWR	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69668
TLC69668RTWR.A	Active	Production	WQFN (RTW) 24	3000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	69668
TLC69668YBHR	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69668
TLC69668YBHR.A	Active	Production	DSBGA (YBH) 24	3000 LARGE T&R	Yes	SNAGCU	Level-1-260C-UNLIM	-40 to 85	TLC69668

⁽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.

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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 TLC69602, TLC69604, TLC69608, TLC69612, TLC69614, TLC69618, TLC69652, TLC69654, TLC69658, TLC69662, TLC69664, TLC69668 :

- Automotive : [TLC69602-Q1](#), [TLC69604-Q1](#), [TLC69608-Q1](#), [TLC69612-Q1](#), [TLC69614-Q1](#), [TLC69618-Q1](#), [TLC69652-Q1](#), [TLC69654-Q1](#), [TLC69658-Q1](#), [TLC69662-Q1](#), [TLC69664-Q1](#), [TLC69668-Q1](#)

NOTE: Qualified Version Definitions:

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