

## 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
INA180A1IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	18ID	<a href="#">Samples</a>
INA180A1IDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	18ID	<a href="#">Samples</a>
INA180A2IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	1A8D	<a href="#">Samples</a>
INA180A2IDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	1A8D	<a href="#">Samples</a>
INA180A3IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	1A9D	<a href="#">Samples</a>
INA180A3IDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	SN	Level-1-260C-UNLIM	-40 to 125	1A9D	<a href="#">Samples</a>
INA180A4IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	1AAD	<a href="#">Samples</a>
INA180A4IDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	1AAD	<a href="#">Samples</a>
INA180B1IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	18RD	<a href="#">Samples</a>
INA180B1IDBVT	ACTIVE	SOT-23	DBV	5	250	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	18RD	<a href="#">Samples</a>
INA180B2IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	1ABD	<a href="#">Samples</a>
INA180B2IDBVT	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	-40 to 125	1ABD	
INA180B3IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	1ACD	<a href="#">Samples</a>
INA180B3IDBVT	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	-40 to 125	1ACD	
INA180B4IDBVR	ACTIVE	SOT-23	DBV	5	3000	RoHS & Green	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 125	1ADD	<a href="#">Samples</a>
INA180B4IDBVT	OBSOLETE	SOT-23	DBV	5		TBD	Call TI	Call TI	-40 to 125	1ADD	
INA2180A1IDGKR	ACTIVE	VSSOP	DGK	8	2500	RoHS & Green	NIPDAU   SN   NIPDAUAG	Level-2-260C-1 YEAR	-40 to 125	1CX6	<a href="#">Samples</a>
INA2180A1IDGKT	OBSOLETE	VSSOP	DGK	8		TBD	Call TI	Call TI	-40 to 125	1CX6	
INA2180A1IDSGR	ACTIVE	WSO8	DSG	8	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	25EY	<a href="#">Samples</a>
INA2180A1IDSGT	OBSOLETE	WSO8	DSG	8		TBD	Call TI	Call TI	-40 to 125	25EY	
INA2180A2IDGKR	ACTIVE	VSSOP	DGK	8	2500	RoHS & Green	NIPDAU   SN   NIPDAUAG	Level-2-260C-1 YEAR	-40 to 125	1CZ6	<a href="#">Samples</a>

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
INA2180A2IDGKT	OBSOLETE	VSSOP	DGK	8		TBD	Call TI	Call TI	-40 to 125	1CZ6	
INA2180A2IDSGR	ACTIVE	WSO	DSG	8	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	25FY	<a href="#">Samples</a>
INA2180A2IDSGT	ACTIVE	WSO	DSG	8	250	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	25FY	<a href="#">Samples</a>
INA2180A3IDGKR	ACTIVE	VSSOP	DGK	8	2500	RoHS & Green	NIPDAU   SN   NIPDAUAG	Level-2-260C-1 YEAR	-40 to 125	1D16	<a href="#">Samples</a>
INA2180A3IDGKT	OBSOLETE	VSSOP	DGK	8		TBD	Call TI	Call TI	-40 to 125	1D16	
INA2180A3IDSGR	ACTIVE	WSO	DSG	8	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	25GY	<a href="#">Samples</a>
INA2180A3IDSGT	OBSOLETE	WSO	DSG	8		TBD	Call TI	Call TI	-40 to 125	25GY	
INA2180A4IDGKR	ACTIVE	VSSOP	DGK	8	2500	RoHS & Green	NIPDAU   SN   NIPDAUAG	Level-2-260C-1 YEAR	-40 to 125	1D26	<a href="#">Samples</a>
INA2180A4IDGKT	OBSOLETE	VSSOP	DGK	8		TBD	Call TI	Call TI	-40 to 125	1D26	
INA2180A4IDSGR	ACTIVE	WSO	DSG	8	3000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 125	25HY	<a href="#">Samples</a>
INA2180A4IDSGT	OBSOLETE	WSO	DSG	8		TBD	Call TI	Call TI	-40 to 125	25HY	
INA4180A1IPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	4180A1	<a href="#">Samples</a>
INA4180A2IPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	4180A2	<a href="#">Samples</a>
INA4180A3IPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	4180A3	<a href="#">Samples</a>
INA4180A4IPWR	ACTIVE	TSSOP	PW	14	2000	RoHS & Green	NIPDAU	Level-2-260C-1 YEAR	-40 to 125	4180A4	<a href="#">Samples</a>

(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 INA180, INA2180, INA4180 :**

- Automotive : [INA180-Q1](#), [INA2180-Q1](#), [INA4180-Q1](#)

NOTE: Qualified Version Definitions:

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