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# High-performance Op Amps sample kit

## KITOPAMP1120



Let's work together



### ST Op Amps mobile application

The ST Op Amps app (ST-OPAMPS-APP) is a free all-in-one design toolkit and smart selector for smartphones and tablets. You can select the best product from among our operational amplifier, comparator, current-sensing, power and high-speed amplifier portfolios for your application.



[www.st.com/opamps-app](http://www.st.com/opamps-app)

Available on the App Store

Get it on Google play

Wandoujia



### eDesignSuite

ST's eDesignSuite is a smart simulation tool that greatly simplifies the task of engineers working on various application types. This platform helps to select the best product for your application and speeds-up the design-in!



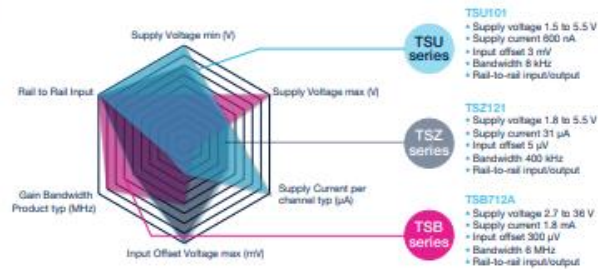
<https://my.st.com/analog/simulator/>

### Recommended products

	Power Nano - Micro	Energy effective	Precision Very high - High	Fast		
5 V	TSU111	TSV8	TSV521	TSZ121	TSV711	TSV991
16 V	TSX631	TSX561	TSX711			TSX9291
36 V	TSB611	TSB571	TSB711			TSB9 (*)

● Products inside this kit (\*) check availability on st.com

### Featured families: Radar chart



### Inside this kit

Product	Family	Key Parameters	Description	Package
<b>Operational amplifiers</b>				
TSB571LT	Up to 36 V	Low power	36 V, 380 µA, 2.5 MHz, rail-to-rail I/O, single, BiCMOS	SOT23-5
TSB611LT			36 V, 125 µA, 560 kHz, rail-to-rail output, single, BiCMOS	SOT23-5
TSB711AELT		High accuracy	36 V, 300 µA, 6 MHz, rail-to-rail I/O, single, BiCMOS	SOT23-5
TSB712AIST			36 V, 300 µA, 6 MHz, rail-to-rail I/O, dual, BiCMOS	MiniSO-8
TSB719AELT	Up to 16 V	Micro power	36 V, 300 µA, 22 MHz, rail-to-rail I/O, single, BiCMOS	SOT23-5
TSX561AELT			16 V, 235 µA, 900 kHz, rail-to-rail input, single, CMOS	SOT23-5
TSX631AELT		High accuracy	16 V, 60 µA, 200 kHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSX711LT			16 V, 200 µA, 2.7 MHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSX921ELT		Large bandwidth	16 V, 10 MHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSX9291LT			16 V, 16 MHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSV711ICT	Up to 5 V	High accuracy	5 V, 200 µA, micropower (10 µA), 150 kHz, rail-to-rail I/O, single, CMOS	SC70-5
TSV731ICT			5 V, 200 µA, micropower (50 µA), 800 kHz, rail-to-rail I/O, single, CMOS	SC70-5
TSZ121ICT		Very high accuracy	5 V, 5 µA, 400 kHz, zero-drift, rail-to-rail I/O, single, CMOS	SC70-5
TSZ181LT			5 V, 25 µA, 3 MHz, zero-drift, rail-to-rail I/O, single, CMOS	SOT23-5
TSZ182IST	Nano power	5 V, 25 µA, 3 MHz, zero-drift, rail-to-rail I/O, dual, CMOS	MiniSO-8	
TSU101ICT			5 V, 580 nA, 8 kHz, rail-to-rail I/O, single, CMOS	SC70-5
TSU111ICT			5 V, 900 nA, high-accuracy (150 µA), 11.5 MHz, rail-to-rail I/O, single, CMOS	SC70-5
TSU112IST		5 V, 900 nA, high-accuracy (150 µA), 11.5 MHz, rail-to-rail I/O, dual, CMOS	MiniSO-8	
<b>Comparators</b>				
TSX393IPT		16 V, micropower (5 µA), open drain output, dual	TSSOP-8	
TS3011ICT		5 V, high-speed (8 ns), rail-to-rail input, push-pull output, single	SC70-5	
TS680ICT		0.9 V, nanopower (250 nA), rail-to-rail input, open drain output, single	SC70-5	



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[www.st.com/opamps](http://www.st.com/opamps)

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Ordercode: KITOPAMP1120

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### Let's work together

### High-performance Op Amps sample kit

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### High performance Op Amps our Values

- 50 years of experience in design and manufacturing
- High-volume supplier
- In-house technologies
- High quality (<0.01 ppm)
- 10-year longevity commitment



**Independant Supplier** Innovation  
 Large Portfolio  
 Commitment Agility Expertise  
 Application Know-How  
 Technical Support Teamwork  
 Agility Resilience

- Addressing 1.5 to 44 V applications
- From -40 to 150°C operating temperature
- From commodity to high performance
- Tiny packages



### Op Amps and Comparators samples

36 V Op Amps		
TSB711LT	TSB611LT	
TSB711ALT	TSB712A1ST	TSB7191ALT

16 V Op Amps		
TSK711LT	TSX561ALT	
TSK631ALT	TSX921LT	TSX9291LT

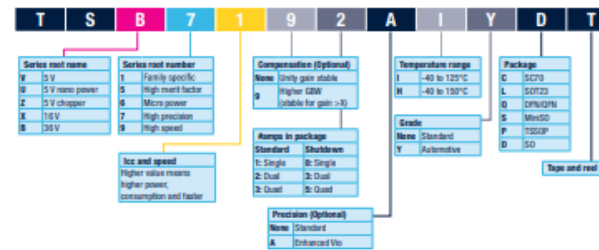
5 V Op Amps		
TSV711ICT	TSV731ICT	
TSZ121ICT	TSZ181LT	TSZ182ST
TSU101ICT	TSU111ICT	TSU112ST

Comparators		
TSX933PT	TS3011ICT	TS880ICT

Note: Samples for evaluation only

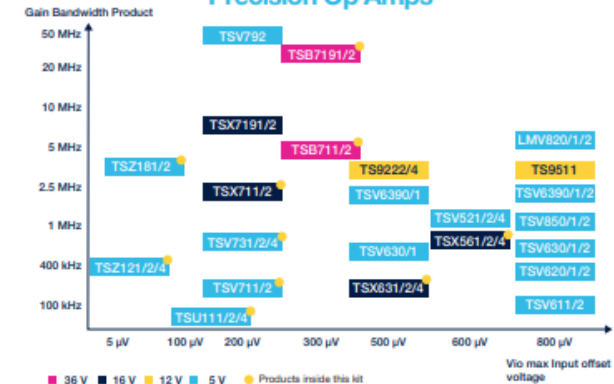
### ST Op Amps naming



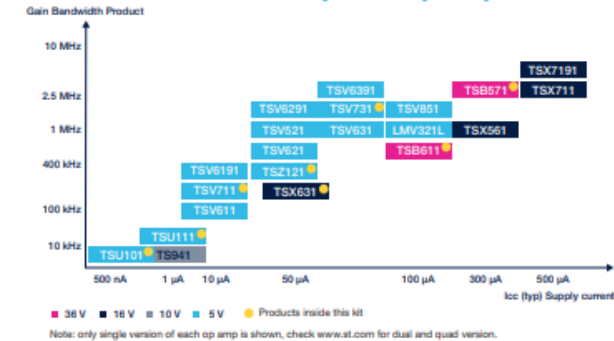
### Comparators



### Precision Op Amps



### Micro and Nano power Op Amps



Op Amps and Comparators samples

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File application

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### Op Amps and Comparators samples

18 V Op Amps	
T2M01NLT	T2M01VALT
T2M02NLT	T2M02VALT
T2M03NLT	T2M03VALT
T2M04NLT	T2M04VALT
T2M05NLT	T2M05VALT
T2M06NLT	T2M06VALT
T2M07NLT	T2M07VALT
T2M08NLT	T2M08VALT
T2M09NLT	T2M09VALT
T2M10NLT	T2M10VALT
T2M11NLT	T2M11VALT
T2M12NLT	T2M12VALT
T2M13NLT	T2M13VALT
T2M14NLT	T2M14VALT
T2M15NLT	T2M15VALT
T2M16NLT	T2M16VALT
T2M17NLT	T2M17VALT
T2M18NLT	T2M18VALT
T2M19NLT	T2M19VALT
T2M20NLT	T2M20VALT

### ST C

1 5 8 7

Series part number	Market risk number
1. 2.4	1. Family specific
2. 2.5	2. High speed parts
3. 2.6	3. Micro-power
4. 2.7	4. High precision
5. 2.8	5. High speed

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up your work  
higher speed  
conversion and more

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for your application.

App Store

QR code

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work of all engineers working on various application types. The system helps to  
select the best product for your application and speeds up the design.