



presented by
EBVElektronik
| An Avnet Company |

Let's work together



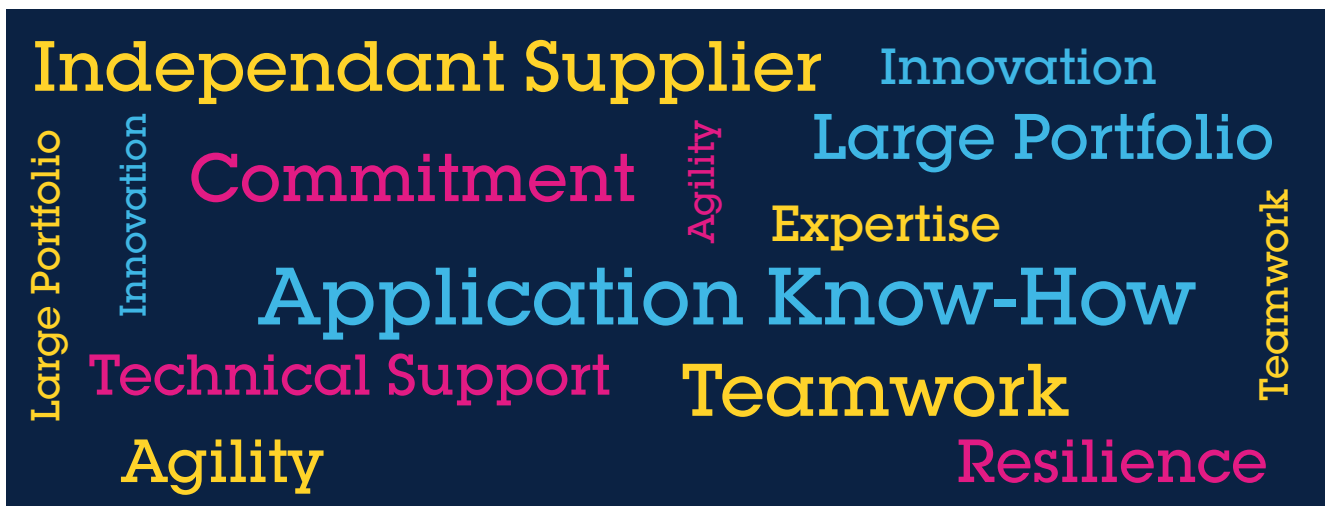
life.augmented

High-performance Op Amps sample kit



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



- 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		
TSB571ILT	TSB611ILT	
TSB711AILT	TSB712AIST	TSB7191AILT

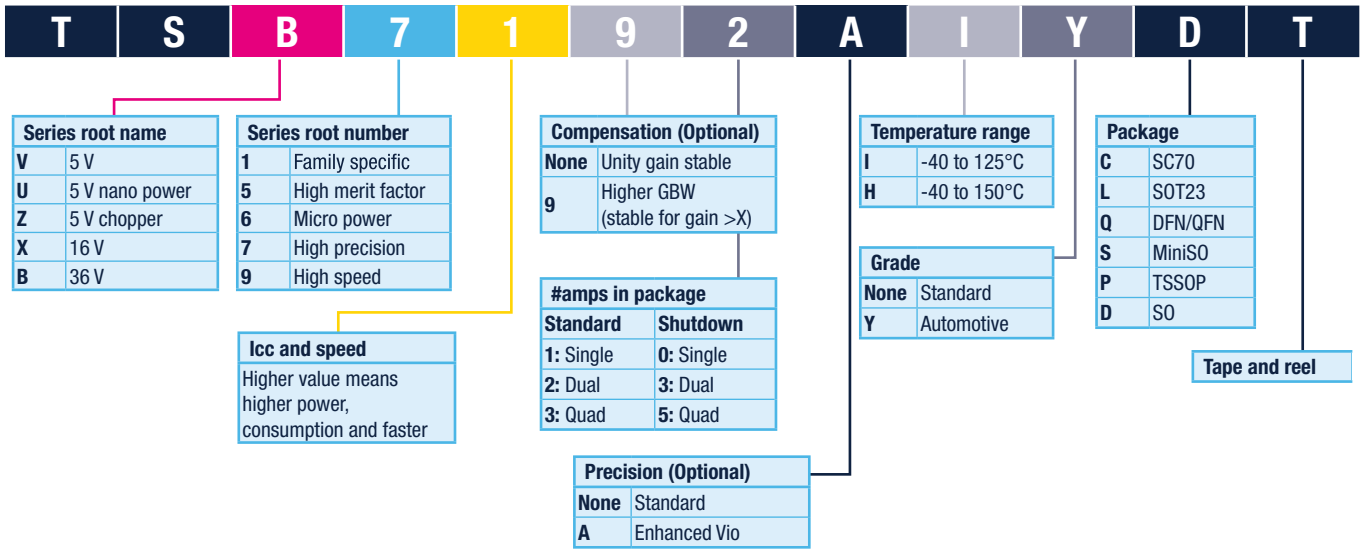
16 V Op Amps		
TSX711ILT	TSX561AILT	
TSX631AILT	TSX921ILT	TSX9291ILT

5 V Op Amps		
TSV711ICT	TSV731ICT	
TSZ121ICT	TSZ181ILT	TSZ182IST
TSU101ICT	TSU111ICT	TSU112IST

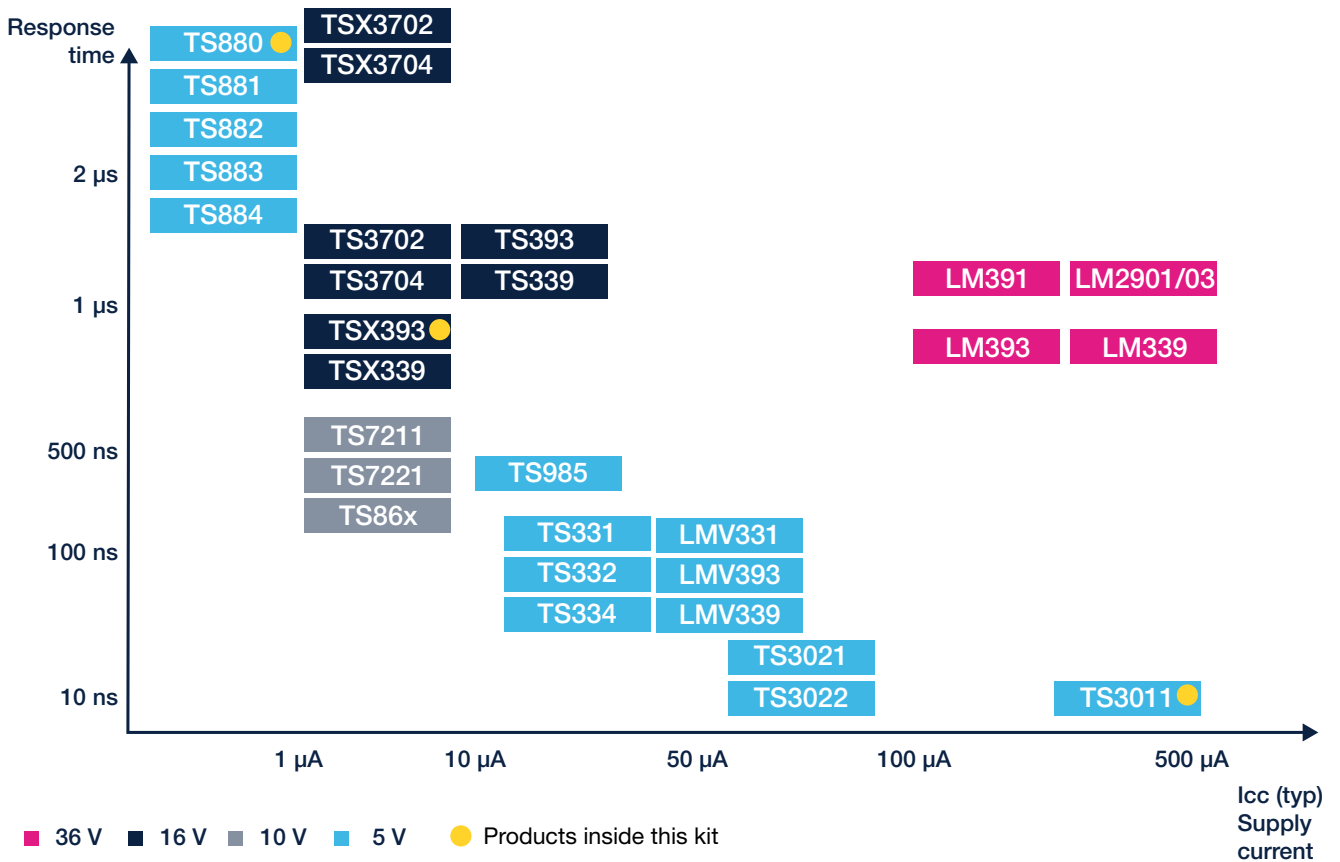
Comparators		
TSX393IPT	TS3011ICT	TS880ICT

Note: Samples for evaluation only

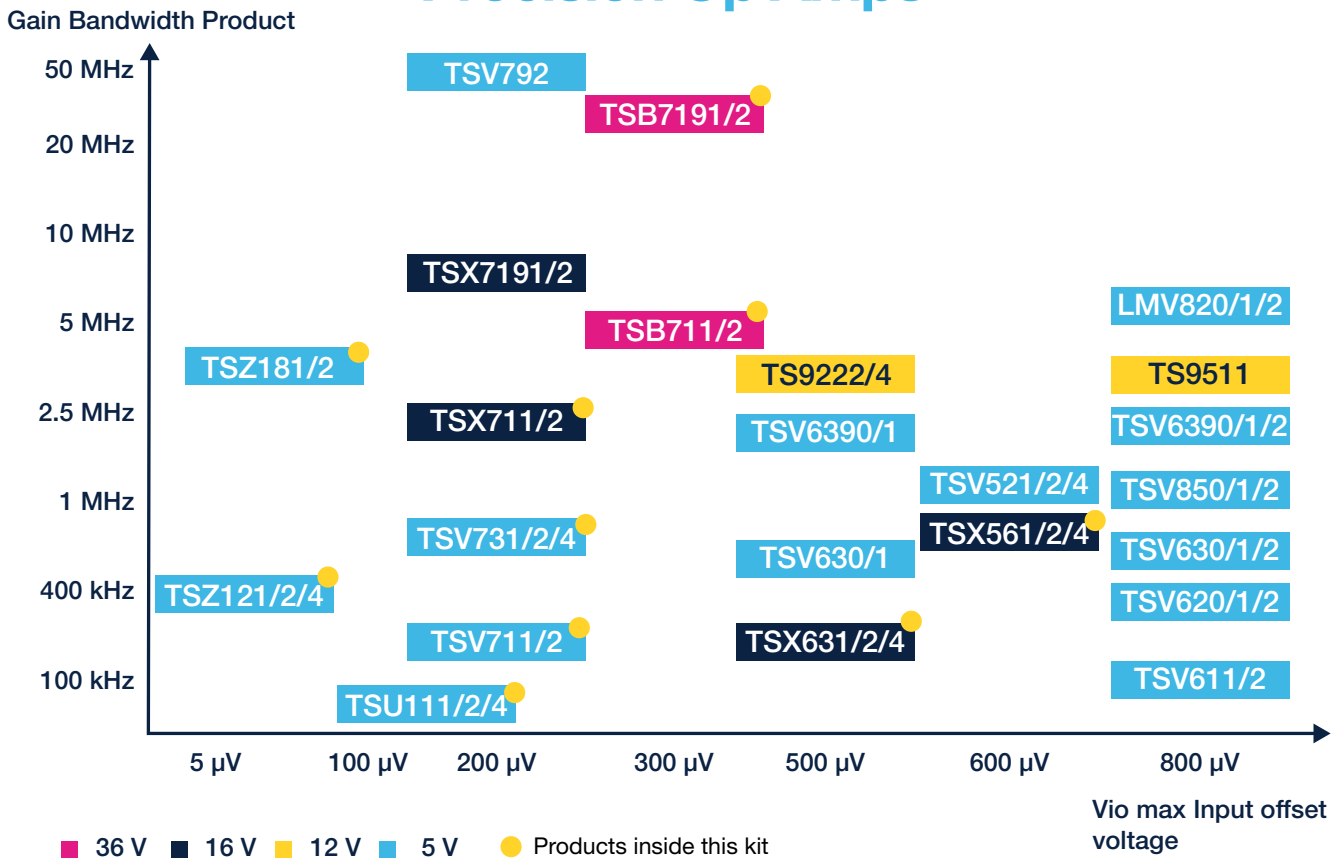
ST Op Amps naming



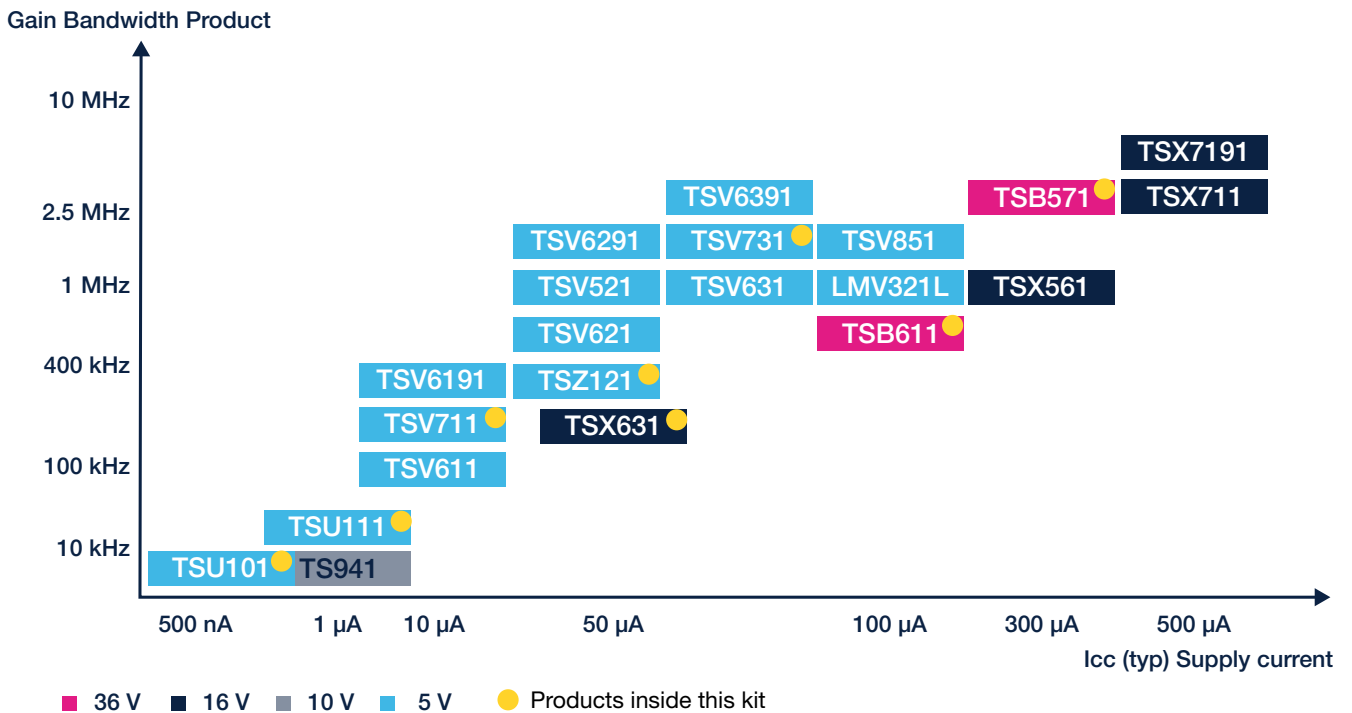
Comparators



Precision Op Amps



Micro and Nano power Op Amps

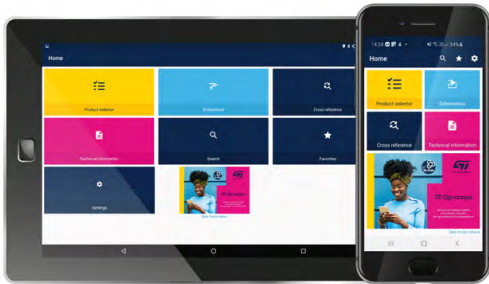


Note: only single version of each op amp is shown, check www.st.com for dual and quad version.

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






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!



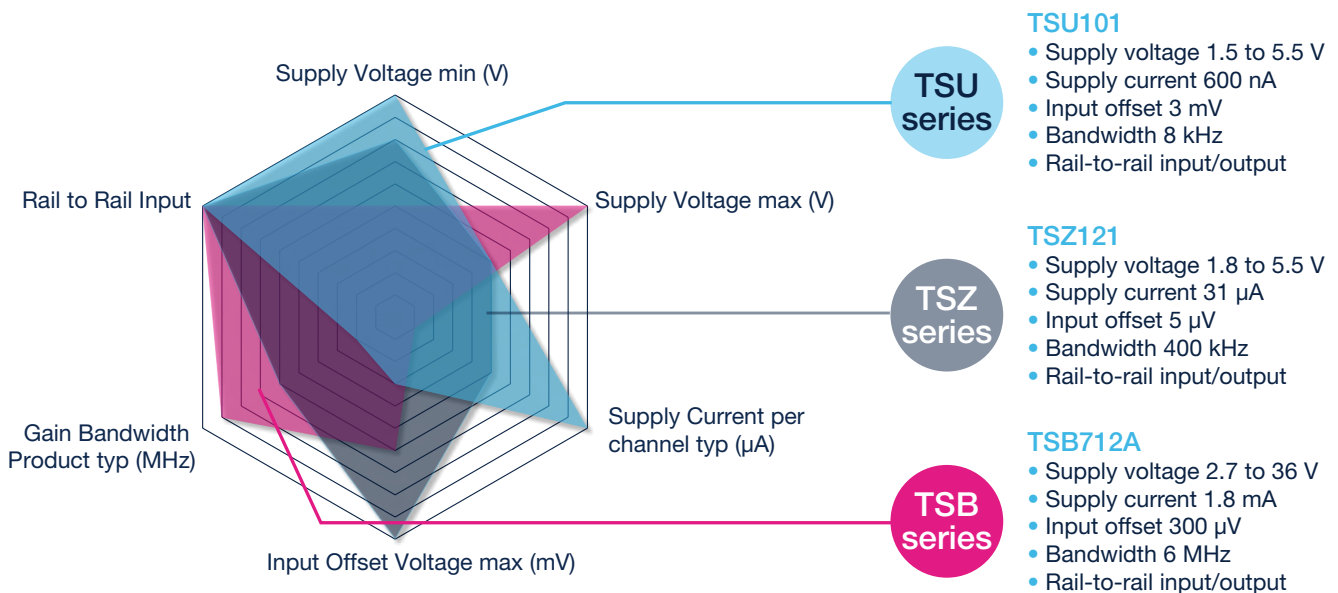
<https://my.st.com/analogsimulator/>

Recommended products

	Power Nano - Micro	Energy effective	Precision Very high - High	Fast
5 V	TSU111  TSV6	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



TSU101

- Supply voltage 1.5 to 5.5 V
- Supply current 600 nA
- Input offset 3 mV
- Bandwidth 8 kHz
- Rail-to-rail input/output

TSZ121

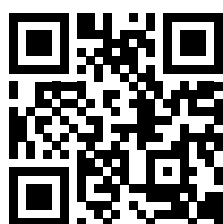
- Supply voltage 1.8 to 5.5 V
- Supply current 31 µA
- Input offset 5 µV
- Bandwidth 400 kHz
- Rail-to-rail input/output

TSB712A

- Supply voltage 2.7 to 36 V
- Supply current 1.8 mA
- Input offset 300 µV
- Bandwidth 6 MHz
- Rail-to-rail input/output

Inside this kit

Product	Family	Key Parameters	Description	Package
Operational amplifiers				
TSB571ILT	Up to 36 V	Low power	36 V, 380 μ A, 2.5 MHz, rail-to-rail I/O, single, BiCMOS	SOT23-5
TSB611ILT			36 V, 125 μ A, 560 kHz, rail-to-rail output, single, BiCMOS	SOT23-5
TSB711AILT		High accuracy	36 V, 300 μ V, 6 MHz, rail-to-rail I/O, single, BiCMOS	SOT23-5
TSB712AIST			36 V, 300 μ V, 6 MHz, rail-to-rail I/O, dual, BiCMOS	MiniSO-8
TSB7191AILT			36 V, 300 μ V, 22 MHz, rail-to-rail I/O, single, BiCMOS	SOT23-5
TSX561AILT	Up to 16 V	Micro power	16 V, 235 μ A, 900 kHz, rail-to-rail Input, single, CMOS	SOT23-5
TSX631AILT			16 V, 60 μ A, 200 kHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSX711ILT		High accuracy	16 V, 200 μ V, 2.7 MHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSX921ILT		Large bandwidth	16 V, 10 MHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSX9291ILT			16 V, 16 MHz, rail-to-rail I/O, single, CMOS	SOT23-5
TSV711ICT	Up to 5 V	High accuracy	5 V, 200 μ V, micropower (10 μ A), 150 kHz, rail-to-rail I/O, single, CMOS	SC70-5
TSV731ICT			5 V, 200 μ V, micropower (60 μ A), 900 kHz, rail-to-rail I/O, single, CMOS	SC70-5
TSZ121ICT		Very high accuracy	5 V, 5 μ V, 400 kHz, zero-drift, rail-to-rail I/O, single, CMOS	SC70-5
TSZ181ILT			5 V, 25 μ V, 3 MHz, zero-drift, rail-to-rail I/O, single, CMOS	SOT23-5
TSZ182IST			5 V, 25 μ V, 3 MHz, zero drift, rail-to-rail I/O, dual, CMOS	MiniSO-8
TSU101ICT		Nano power	5 V, 580 nA, 8 kHz, rail-to-rail I/O, single, CMOS	SC70-5
TSU111ICT			5 V, 900 nA, high-accuracy (150 μ V), 11.5 kHz, rail-to-rail I/O, single, CMOS	SC70-5
TSU112IST			5 V, 900 nA, high-accuracy (150 μ V), 11.5 kHz, rail-to-rail I/O, dual, CMOS	MiniSO-8
Comparators				
TSX393IPT			16 V, micropower (5 μ A), open drain output, dual	TSSOP-8
TS3011ICT			5 V, high-speed (8 ns), rail-to-rail input, push pull output, single	SC70-5
TS880ICT			0.9 V, nanopower (250 nA), rail-to-rail input, open drain output, single	SC70-5



Scan this QR-code to visit our website
www.st.com/opamps

© STMicroelectronics - November 2020 - All rights reserved
 ST and the ST logo are registered and/or unregistered trademarks of STMicroelectronics International NV or its affiliates in the EU and/or elsewhere. In particular, ST and the ST logo are Registered in the US Patent and Trademark Office. For additional information about ST trademarks, please refer to www.st.com/trademarks. All other product or service names are the property of their respective owners.



CONTACT

EBV Elektronik GmbH & Co. KG
 D-85586 Poing
 Im Technologiepark 2-8
 Phone: +49 (0)8121 774-0
 Fax: +49 (0)8121 774-422