Design Tools

Amplifier Parametric Evaluation Tool

The purpose of this tool is to help with the selection, evaluation and troubleshooting of voltage feedback operational amplifiers (Op-Amps). It uses typical parametric data to mathematically model the general behavior of a selected amplifier. It allows a user to select an amplifier, quickly configure a circuit, apply a signal and evaluate the general performance. It is useful for checking an amplifier's parametric performance such as Gain Bandwidth, Slew Rate, Input/Output Range, Differential Voltages, Gain Error, Load Current, Possible Stability Issues and DC Errors in a given circuit configuration. This tool is limited to first order approximations and should not be used in place of SPICE modeling or hardware testing.

Opamp Range / Gain / Error Calculator

This tool calculates the error budget and verifies the range of an op amp based on your application. Changing default values such as operating temperature, topology, gain, and resistor tolerance creates an error budget for your application. The error is broken out as absolute error, resolution error, and drift/gain error. This tool also verifies that the input and output levels are within the range of the op amp selected.

Amplifier Parametric Evaluation Tool

The Amplifier Parametric Evaluation Tool can be used to help with the selection, evaluation and troubleshooting of Operational Amplifiers. It uses typical parametric data to mathematically model the general behavior of a selected amplifier in a configured circuit.

Selection Tables
Solutions Bulletins
More...

Signal Chains
Interactive Signal Chains

Price, Packaging, and Availability

Print Table

OP470 Model Options

Model	Status	Package	Pins	Temp Range		Available	RoHS Compliant	Samples Cart	Purchase Cart
5962-88565012A	Prodn	20 ld LCC	20	Mil		1/13/2006	N	-	Add to Cart
5962-88565013A	Obs	20 ld LCC	28	Mil	-	-	N	-	Contact ADI
5962-8856501CA	Prodn	14 ld CerDIP	14	Mil		11/11/2005	N	-	Add to Cart
OP470ARC/883C	Obs	20 ld LCC	20	Mil	-	-	N	-	Contact ADI
OP470ATC/883C	Obs	20 ld LCC	28	Mil	-	-	N	-	Contact ADI
OP470AY	Obs	14 ld CerDIP	14	Mil	-	-	N	-	Contact ADI
OP470AY/883C	Obs	14 ld CerDIP	14	Mil	-	-	N	-	Contact ADI
OP470EY	Prodn	14 ld CerDIP	14			12/2/2005	N	-	Add to Cart
OP470FY	Obs	14 ld CerDIP	14		-	-	N	-	Contact ADI
OP470GP	Prodn	14 ld PDIP	14			12/2/2005	N	-	Add to Cart
OP470GPZ	Prodn	14 ld PDIP	14	Ind		12/30/2005	Y	Add to Cart	Add to Cart
OP470GS	Prodn	16 ld SOIC - Wide	16			12/9/2005	N	Add to Cart	Add to Cart
OP470GS-REEL	Prodn	16 ld SOIC - Wide	16	TBD		12/23/2005	N	-	Add to Cart
OP470GSZ	Prodn	16 ld SOIC - Wide	16	Ind		1/20/2006	Y	Add to Cart	Add to Cart

OP470GSZ-REEL	**Prodn**	16 ld SOIC - Wide	**16**	**TBD**		**Y**	**-**	Add to Cart

EVAL-PRAOPAMP: Universal Precision Op Amp Evaluation Board

Model	Status	Package	Pins	Temp Range	Price* (1000-4999)	Available	RoHS Compliant	Samples Cart	Purchase Cart
EVAL-PRAOPAMP	**Prodn**	EVALUATION BOARDS	**-**		**-**	**11/11/2005**	**N**	Add to Cart	Contact ADI
EVAL-PRAOPAMP-1KS	**Prodn**	EVALUATION BOARDS	**-**		**-**	**11/11/2005**	**N**	Add to Cart	Contact ADI
EVAL-PRAOPAMP-1R	**Prodn**	EVALUATION BOARDS	**-**		**-**	**11/11/2005**	**N**	Add to Cart	Contact ADI
EVAL-PRAOPAMP-1RJ	**Prodn**	EVALUATION BOARDS	**-**		**-**	**11/11/2005**	**N**	Add to Cart	Contact ADI
EVAL-PRAOPAMP-1RM	**Prodn**	EVALUATION BOARDS	**-**		**-**	**11/11/2005**	**N**	Add to Cart	Contact ADI
EVAL-PRAOPAMP-2R	**Prodn**	EVALUATION BOARDS	**-**		**-**	**11/11/2005**	**N**	Add to Cart	Contact ADI
EVAL-PRAOPAMP-2RM	**Prodn**	EVALUATION BOARDS	**-**		**-**	**11/11/2005**	**N**	Add to Cart	Contact ADI

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Parametric Selection Table

Customize Table

Part#	Small Signal Bandwidth	Slew Rate	Vos	Ib	V Noise Density	# of Amplifiers	Widest Temp Range
OP470	6MHz	2V/µs	400µV	25nA	3.2nV/rtHz	quad	-55 to +125 Deg C
AD8674	10MHz	4V/µs	20µV	3nA	2.8nV/rtHz	quad	-40 to +125 Deg C
AD713	4MHz	20V/µs	300µV	40pA	16nV/rtHz	quad	-55 to +125 Deg C

OP270	5MHz	2.4V/µs	50µV	15nA	3.2nV/rtHz	dual	-55 to +125 Deg C
OP27	8MHz	2.8V/µs	30µV	15nA	3.2nV/rtHz	single	-55 to +125 Deg C
AD8608	10MHz	5V/µs	20µV	200fA	6.5nV/rtHz	quad	-40 to +125 Deg C
OP471	6.5MHz	8V/µs	1mV	25nA	6.5nV/rtHz	quad	-55 to +125 Deg C
AD8694	10MHz	5V/µs	400µV	200fA	8nV/rtHz	quad	-40 to +125 Deg C
AD8618	24MHz	12V/µs	23µV	200fA	6nV/rtHz	quad	-40 to +125 Deg C
OP467	28MHz	170V/µs	200µV	150nA	6nV/rtHz	quad	-55 to +125 Deg C
AD8643	3.5MHz	3V/µs	50µV	250fA	27.5nV/rtHz	quad	-40 to +125 Deg C