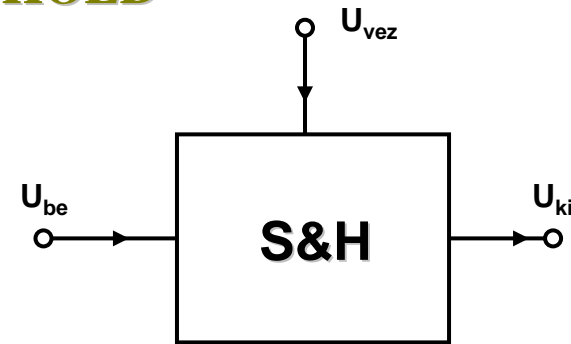
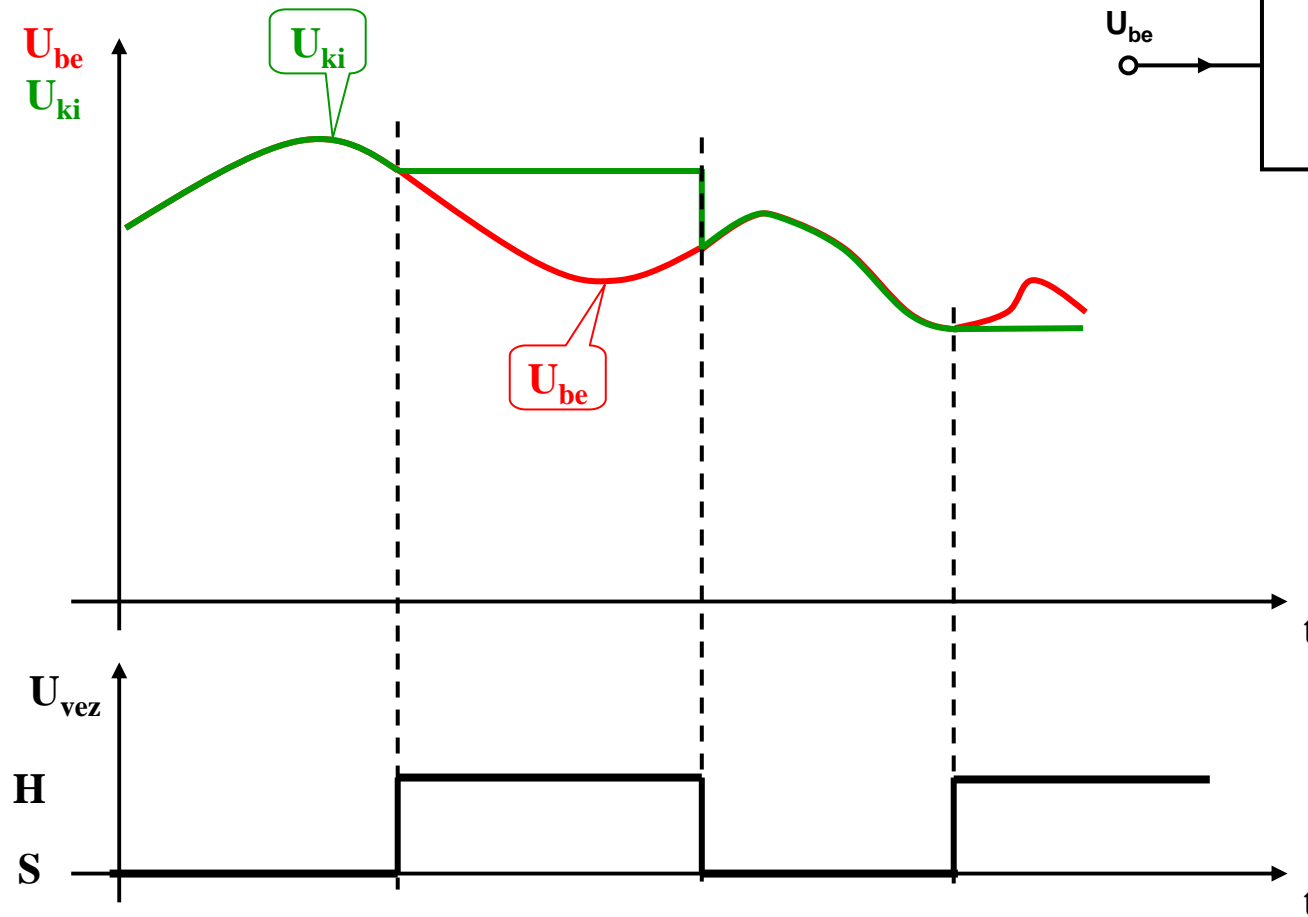


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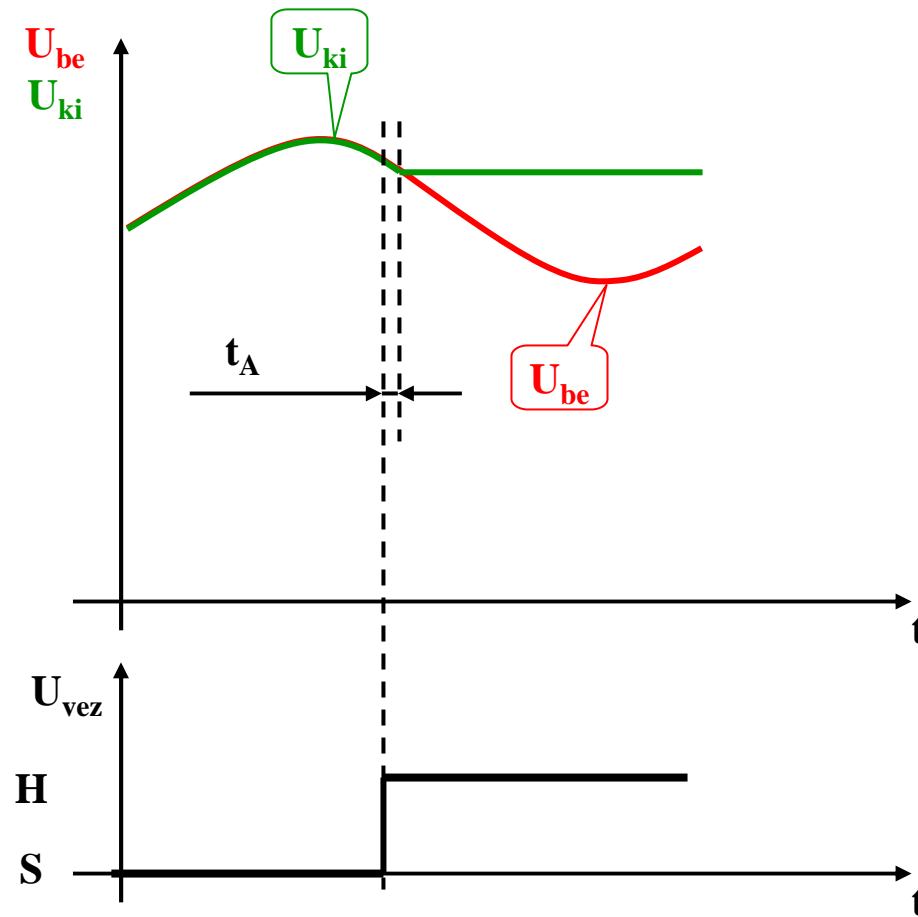
SAMPLE / TRACK & HOLD

Tulajdonságok, jellemzők



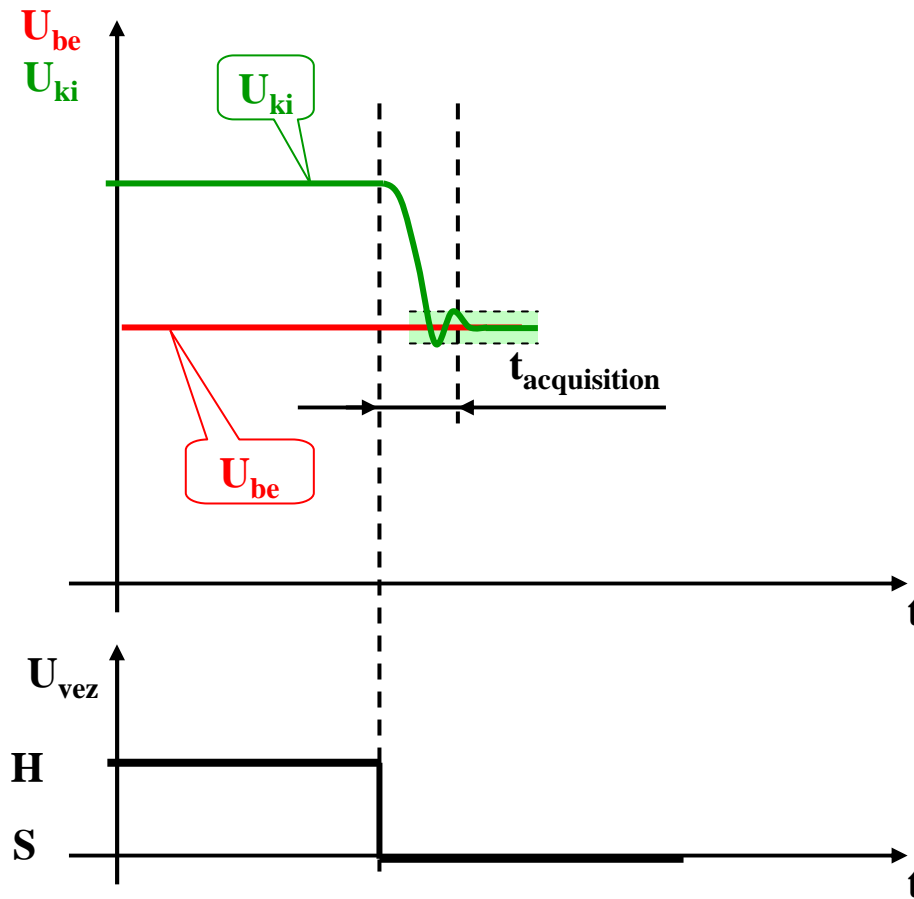
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- Apertura idő



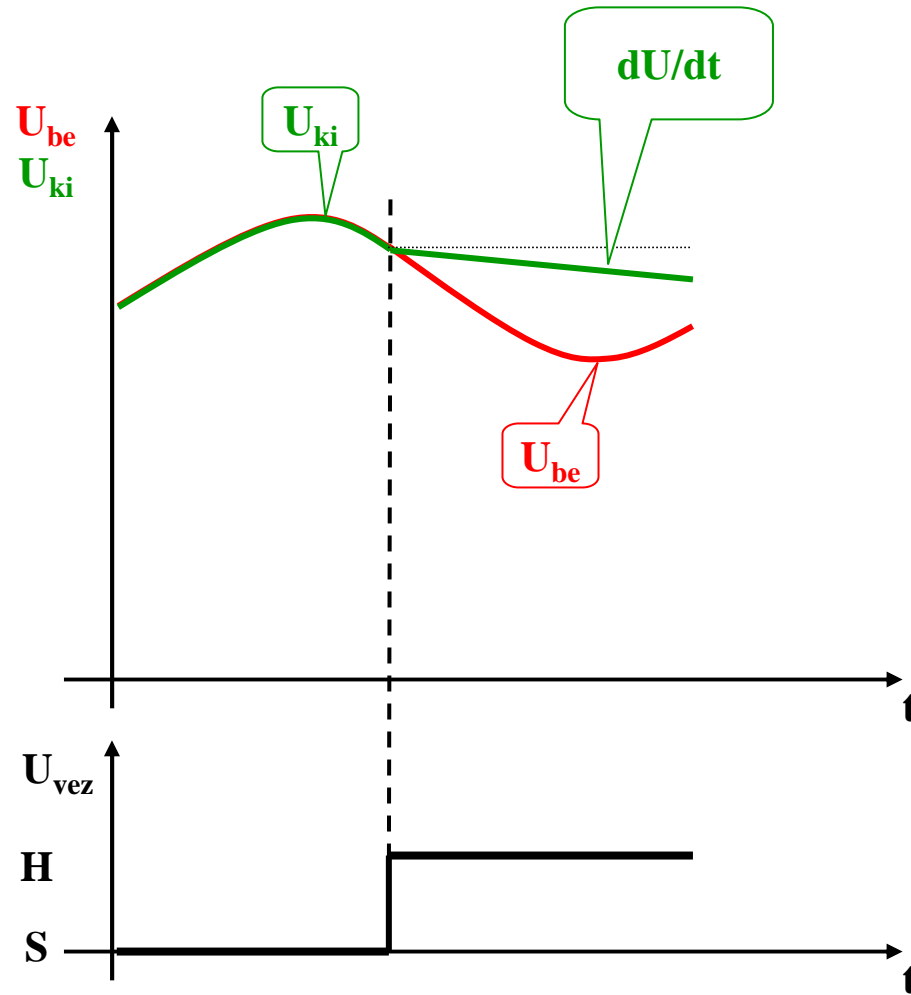
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- Minimális mintavételezési idő



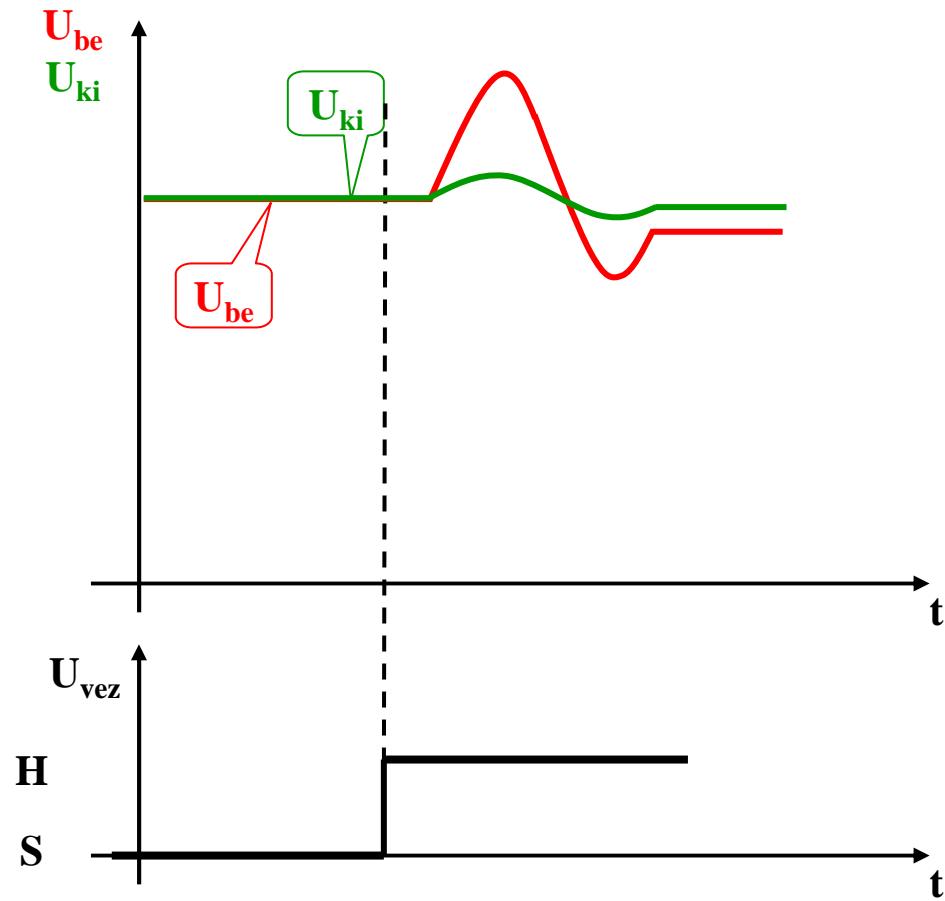
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- Drop



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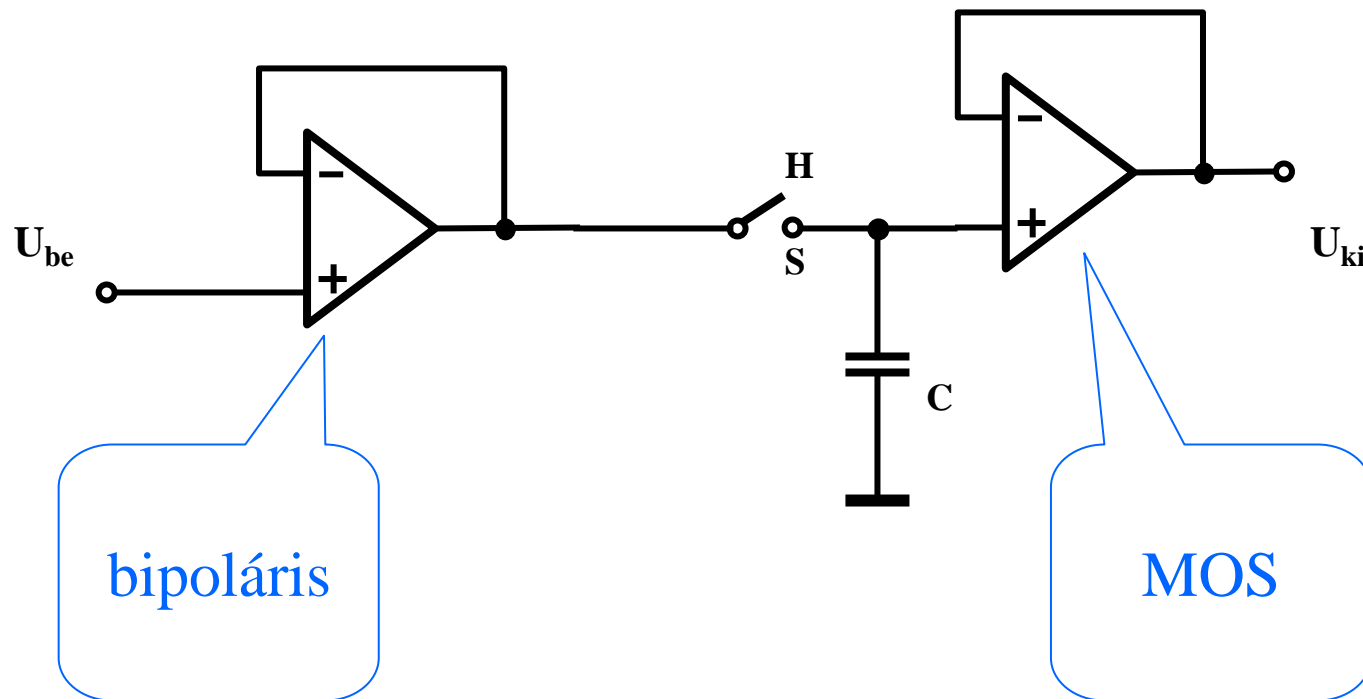
- Áthallás



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Kapcsolási megoldások

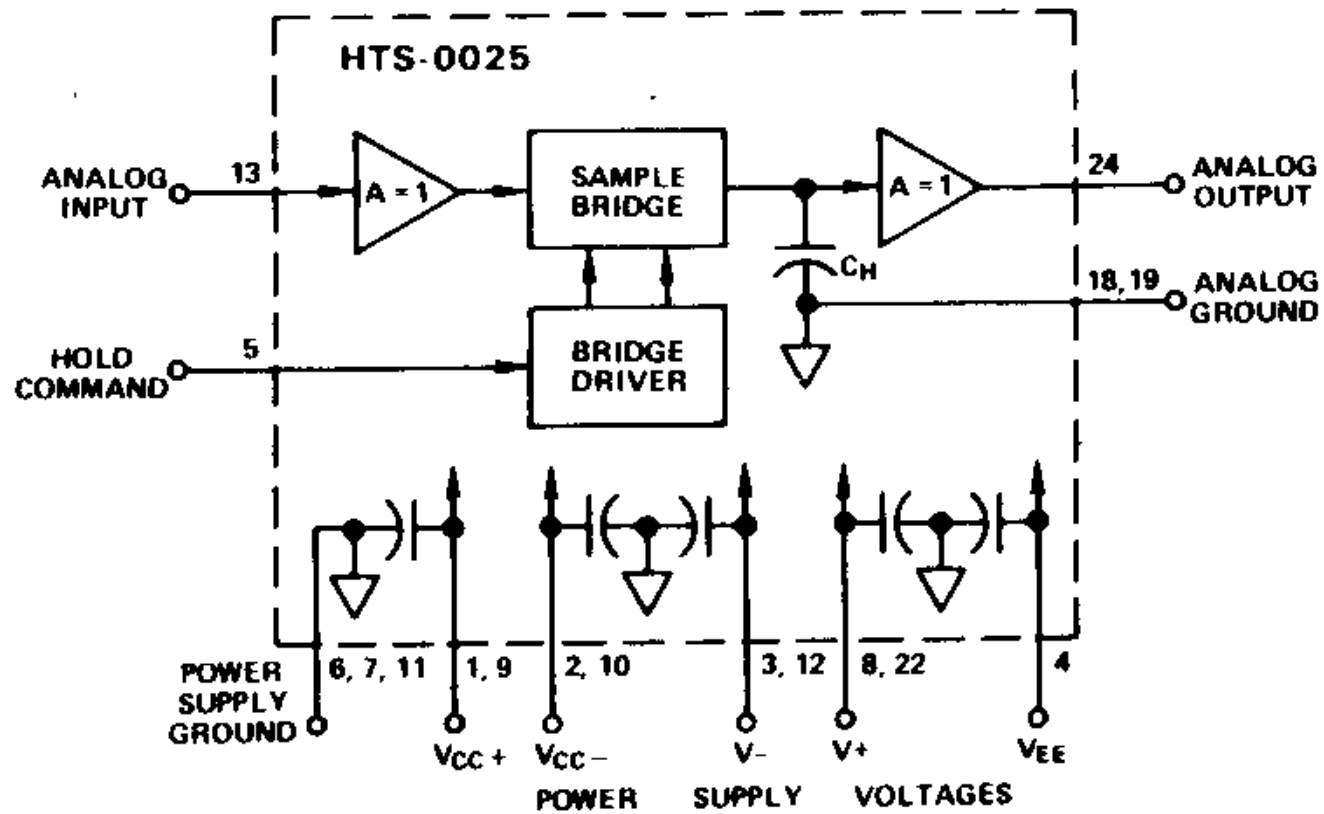
- 1.



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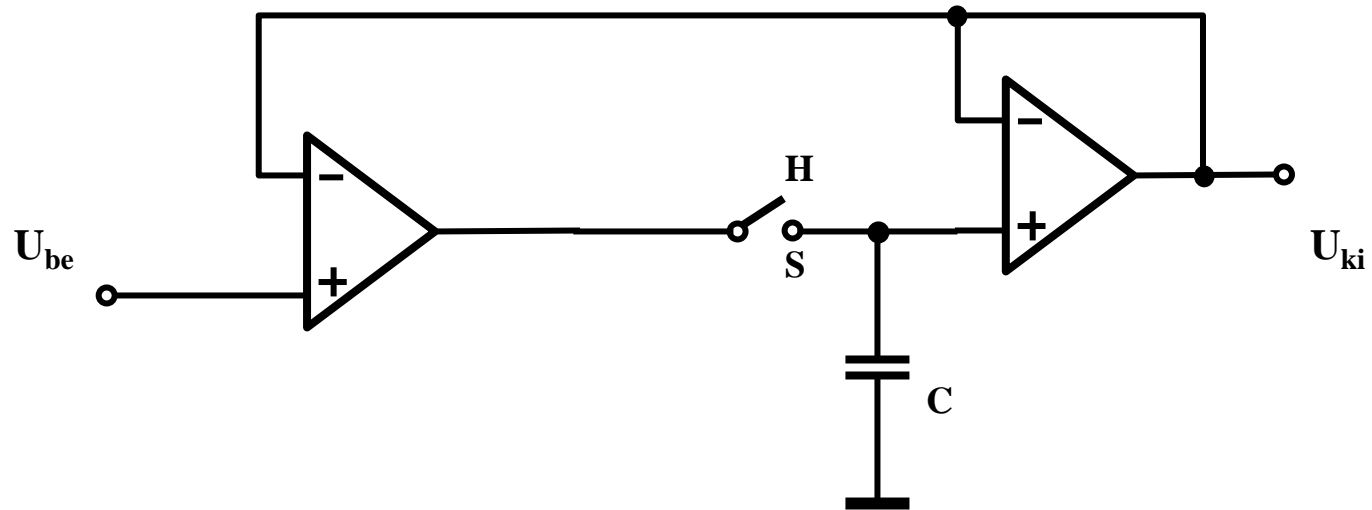
pl.:HTS 0025

HTS-0025 FUNCTIONAL BLOCK DIAGRAM



MINTAVEVŐ / KÖVETŐ - TARTÓ ÁRAMKÖRÖK

• 2.



MINTAVEVŐ / KÖVETŐ - TARTÓ ÁRAMKÖRÖK

pl.:AD583

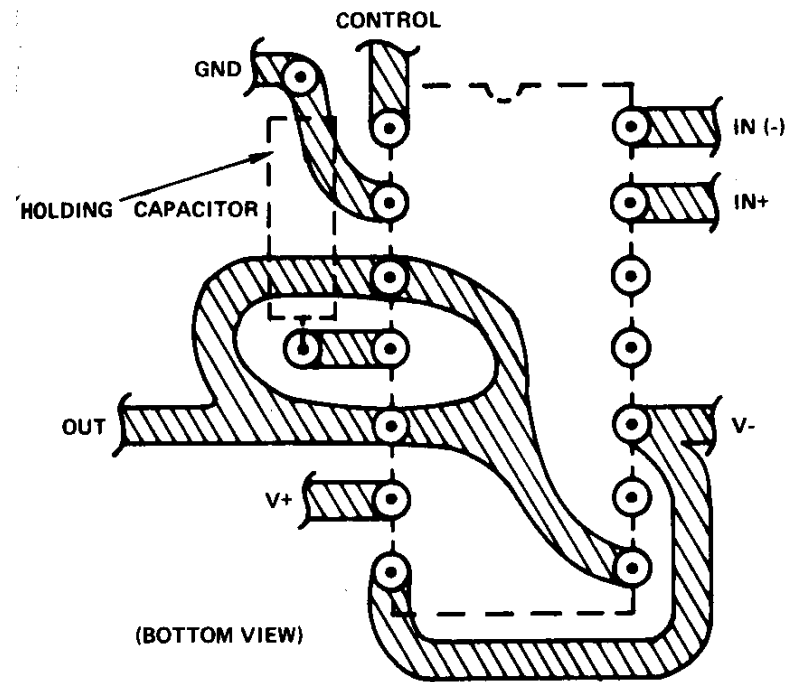
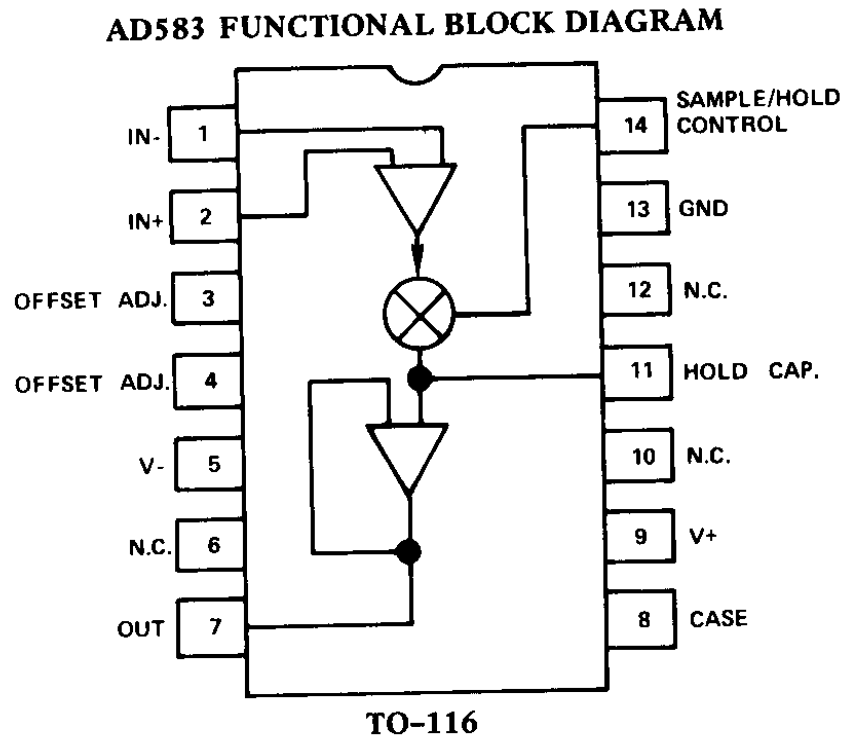
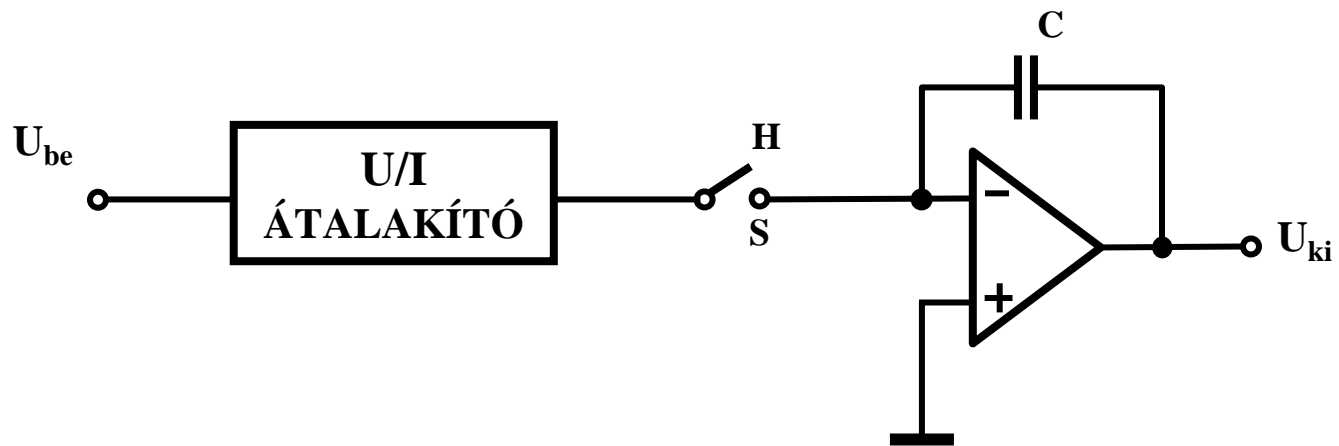


Figure 2. Guard Ring Layout

MINTAVEVŐ / KÖVETŐ - TARTÓ ÁRAMKÖRÖK

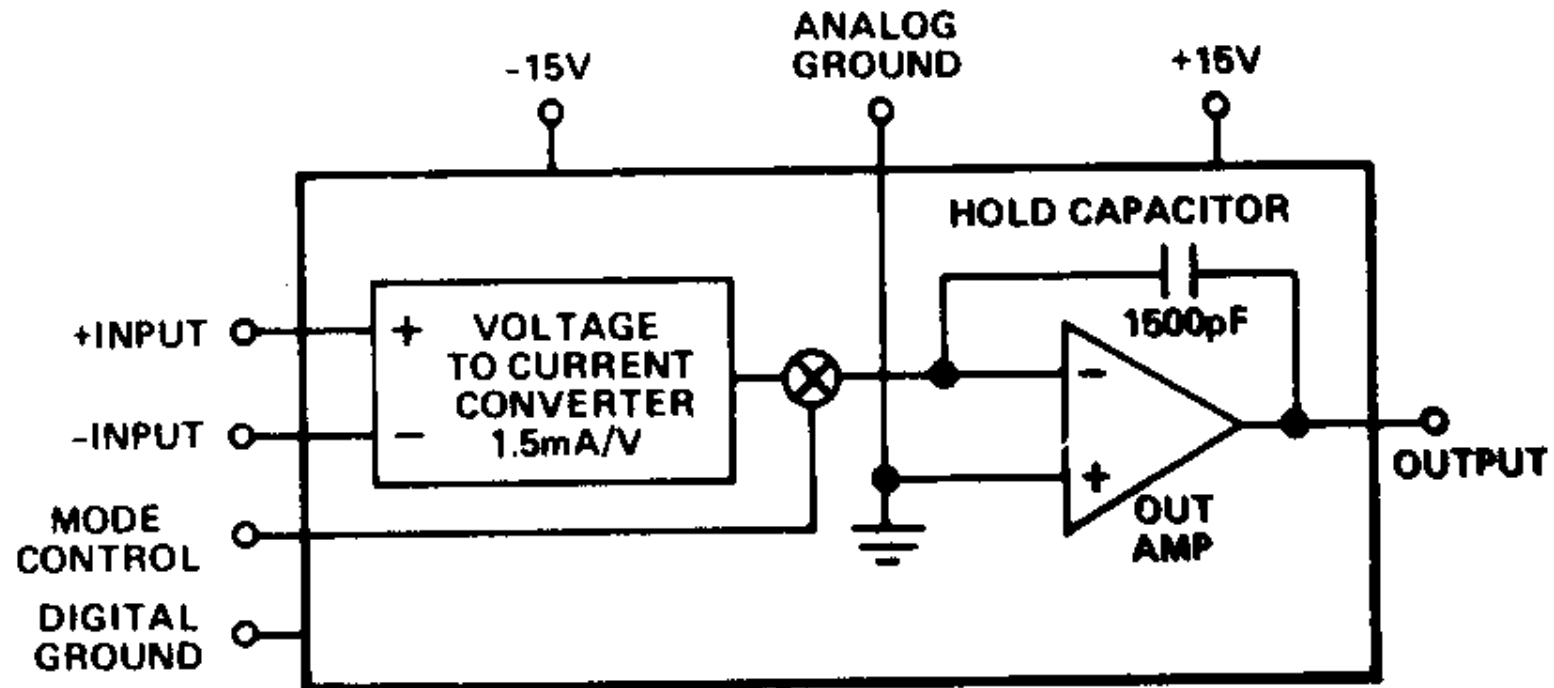
• 3.



MINTAVEVŐ / KÖVETŐ - TARTÓ ÁRAMKÖRÖK

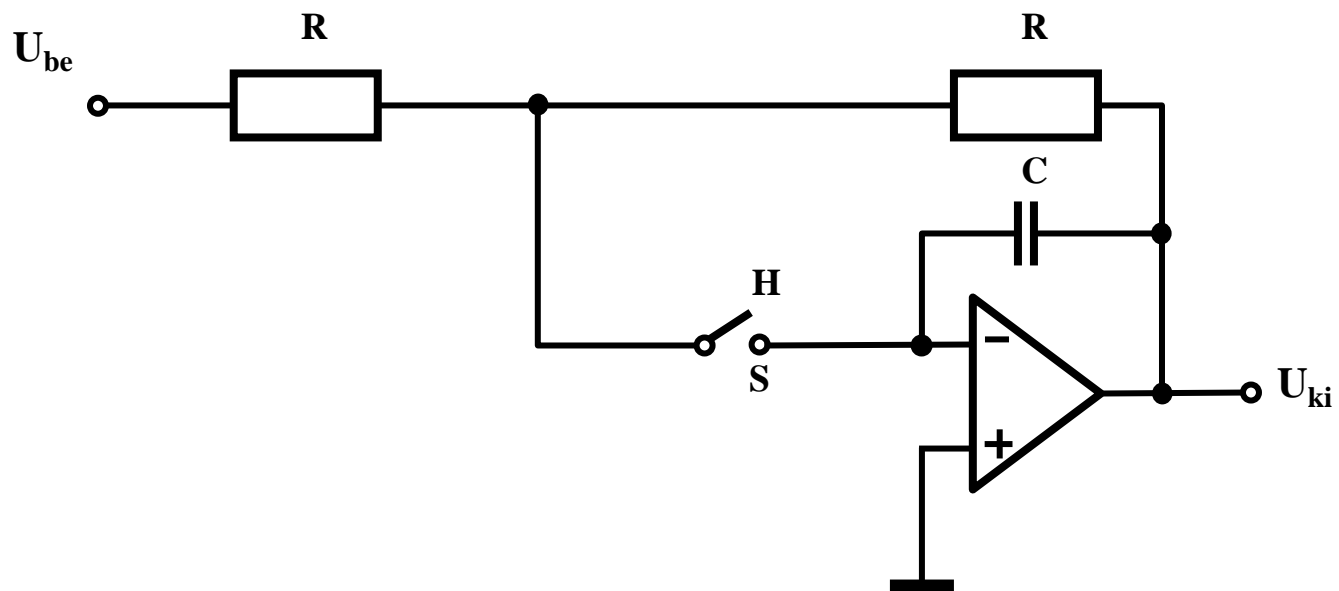
pl.: SHA 1144

SHA1144 FUNCTIONAL BLOCK DIAGRAM



MINTAVEVŐ / KÖVETŐ - TARTÓ ÁRAMKÖRÖK

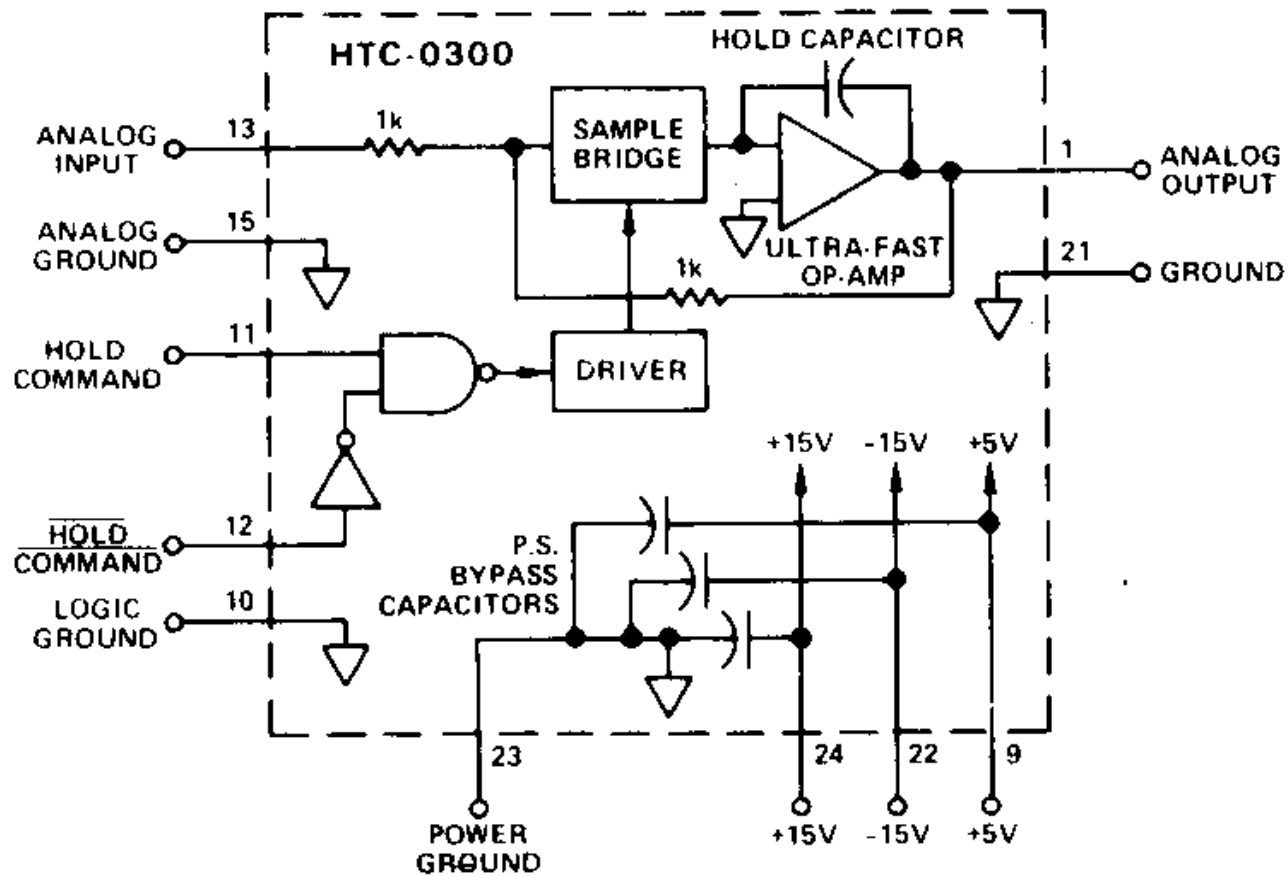
• 4.



MINTAVEVŐ / KÖVETŐ - TARTÓ ÁRAMKÖRÖK

pl.: HTC 0300

HTC-0300 FUNCTIONAL BLOCK DIAGRAM



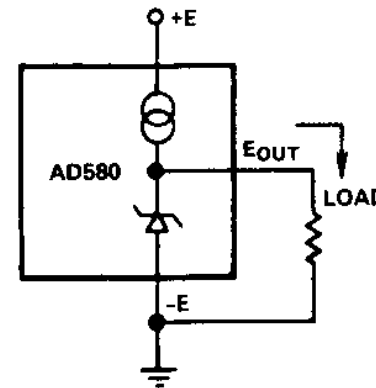
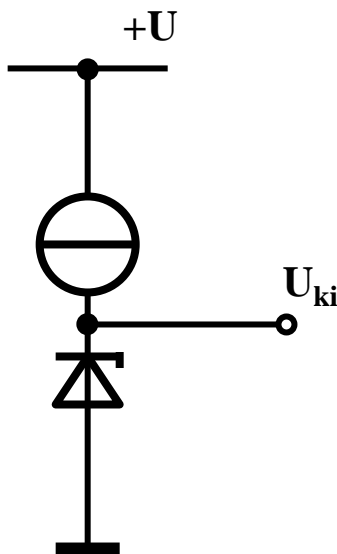
NOTE: PIN 12 SHOULD BE GROUNDDED IF NOT USED.

REFERENCIA FESZÜLTÉSFORRÁSOK

VOLTAGE REFERENCES

precíziós, nagy stabilitású áramkörök

pl.: AD580



FEATURES

Laser Trimmed to Higher Accuracy: $2.500\text{V} \pm 0.4\%$, Improved from $\pm 1.0\%$ (AD580M)

3-Terminal Device: Voltage In/Voltage Out

Excellent Temperature Stability: $10\text{ppm}/^\circ\text{C}$ (AD580M, U)

Excellent Long Term Stability: $250\mu\text{V}$ ($25\mu\text{V}/\text{Month}$)

Low Quiescent Current: 1.0mA max

Small, Hermetic IC Package: TO-52 Can

3 MIL Temperature Grades (-55°C to $+125^\circ\text{C}$) with

MIL-STD-883, Class B Processing Available

REFERENCIA FESZÜLTÉSFORRÁSOK

AD584

FEATURES

Four Programmable Output Voltages:

10.000V, 7.500V, 5.000V, 2.500V

Laser-Trimmed to High Accuracies

No External Components Required

Trimmed Temperature Coefficient:

5ppm/°C max, 0 to +70°C (AD584LH)

15ppm/°C max, -55°C to +125°C (AD584TH)

Zero Output Strobe Terminal Provided

Two Terminal Negative Reference

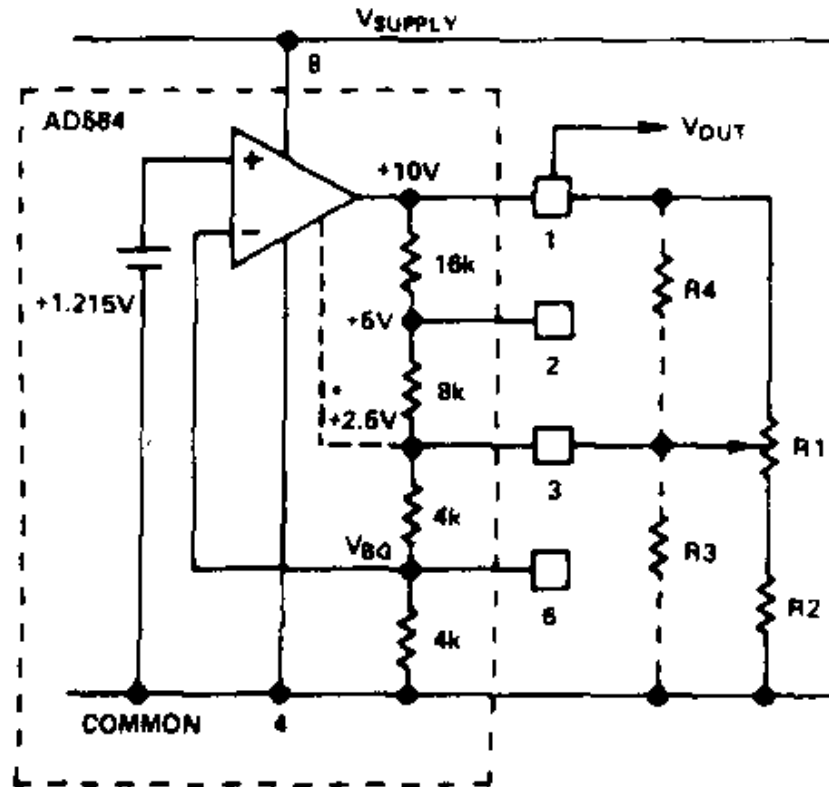
Capability (5V & Above)

Output Sources or Sinks Current

Low Quiescent Current: 1.0mA max

10mA Current Output Capability

Low Cost



*THE 2.5V TAP IS USED INTERNALLY AS A BIAS POINT AND SHOULD NOT BE CHANGED BY MORE THAN 100mV IN ANY TRIM CONFIGURATION.

REFERENCIA FESZÜLTÉSÉGFORRÁSOK

PRECISION REFERENCE-VOLTAGE SOURCES

MFGR	DEVICE TYPE	REFERENCE-VOLTAGE V_R		V_R TC (PPM/°C) OVER TEMP RANGE ¹			REGULATED LOAD-CURRENT RANGE ³ (mA)	V_R NOISE VOLTAGE ⁴
		OUTPUT ⁵ (V)	TOLERANCE ²	COMM	IND	MIL		
NATIONAL	LM113	1.220	5	100	—	100	0.5-20	5 μ V RMS ¹
	LM313	1.220	5	100	—	—	0.5-20	5 μ V RMS ¹
MICRO POWER SYSTEMS	MP5010	1.220	1.5	50	—	50	50-500 μ A	15 μ V RMS
TELEDYNE	9491	1.22	0.4	50	—	50	50 μ A-1	15 μ V p-p
INTERSIL	ICL8069	1.230	2	10	—	50	50 μ A-5 mA	5 μ V RMS ¹
DATTEL	VR-8069	1.230	2	10	—	50	50 μ A-5 mA	30 μ V RMS
ANALOG DEVICES	AD589	1.235	2	10	—	25	50 μ A-5 mA	5 μ V RMS ¹
NATIONAL	LM185	1.235	1	—	—	20	10 μ A-20 mA	60 μ V RMS ¹
	LM285	1.235	1	—	20	—	10 μ A-20 mA	80 μ V RMS ¹
	LM385	1.235	2	20	—	—	10 μ A-20 mA	80 μ V RMS ¹
FERRANTI	ZN423	2.26	4.76	30	—	—	1.5-12	8 μ V RMS ¹
	ZN404	2.45	2.86	200	—	—	2-120 (MAX)	6 μ V RMS ¹
	ZN458	2.45	1.43	100	—	—	2-120 (MAX)	10 μ V RMS ¹
	ZN458A	2.45	1.43	50	—	—	2-120 (MAX)	10 μ V RMS ¹
	ZN458B	2.45	1.43	30	—	—	2-120 (MAX)	10 μ V RMS ¹
DATTEL	VR-182A	2.455	1.43	100	—	—	2-120 (MAX)	10 μ V RMS ¹
	VR-182B	2.455	1.43	50	—	—	2-120 (MAX)	10 μ V RMS ¹
	VR-182C	2.455	1.43	30	—	—	2-120 (MAX)	10 μ V RMS ¹
ANALOG DEVICES	AD580	2.500	0.4	10	—	10	0-10	60 μ V p-p
	AD584 ^P	2.500	0.1	10	—	15	0-5	50 μ V p-p
	AD1403	2.500	0.4	25	—	—	0-10	60 μ V p-p
MOTOROLA	MC1400-2	\pm 2.500	0.2	10	—	—	0- \pm 10	8 μ V p-p ¹
	MC1500-2	2.500	0.2	—	—	10	0- \pm 10	8 μ V p-p ¹
	MC1403	2.500	1	25	—	—	0-10	8 μ V p-p ¹
	MC1503	2.500	1	—	—	25	0-10	8 μ V p-p ¹
NATIONAL	LM135	2.490	2	—	—	24	300 μ A-10 mA	15 μ V RMS
	LM236	2.490	2	—	36	—	300 μ A-10 mA	15 μ V RMS
	LM336	2.490	4	72	—	—	300 μ A-10 mA	15 μ V RMS
SILICON GENERAL	SG1503	2.500	0.6	10	—	40	0-10	150 μ V RMS
	SG2503	2.500	0.6	25	—	—	0-10	150 μ V RMS
	SG3503	2.500	1	25	—	—	0-10	150 μ V RMS
ANALOG DEVICES	AD584 ^P	5.000	0.6	5	—	10	0-5	50 μ V p-p ¹
FERRANTI	ZN405	5.00	1	25	—	—	0.15-15	10 μ V RMS (1 Hz to 10 kHz)
HARRIS	HA-1620	5.000	0.1	1	—	1	0-10	200 μ V RMS
	HA-1625	5.000	0.1	1	—	1	0-10	(0.1 Hz to 10 MHz)
MICRO POWER SYSTEMS	MP5531/	5.000	0.3	8.5	—	8.5	10	10 μ V p-p
	REF-02							
MOTOROLA	MC1400-5	\pm 5.000	0.2	10	—	—	0- \pm 10	12 μ V p-p ¹
	MC1500-5	\pm 5.000	0.2	—	—	10	0- \pm 10	12 μ V p-p ¹
	MC1404-5	5.000	1	25	—	—	0-10	12 μ V p-p ¹
	MC1504-5	5.000	1	—	—	25	0-10	12 μ V p-p ¹
NATIONAL	LM368-5	5.000	0.01	5	—	—	0-1	15 μ V RMS ¹
PRECISION MONOLITHICS	REF-02	5.000	0.3	25	—	8.5	20	15 μ V p-p
	REF-05	5.000	0.3	25	—	8.5	20	15 μ V p-p
TELEDYNE	9495	5.00	0.3	8.5	—	8.5	0-10	15 μ V p-p
FERRANTI	ZN406	6.200	1	—	—	25	0.15-15	10 μ V RMS ¹

REFERENCIA FESZÜLTÉSFORRÁSOK

MFR	DEVICE TYPE	REFERENCE-VOLTAGE V_R		V_R TC (PPM/°C) OVER TEMP RANGE ¹			REGULATED LOAD-CURRENT RANGE ³ (mA)	V_R NOISE VOLTAGE ⁴
		OUTPUT ⁵ (V)	TOLERANCE ²	COMM	IND	MIL		
MOTOROLA	MC1400-6	± 6.250	0.2	10	—	—	0-±10	12 μ V p-p ¹
	MC1500-6	± 6.250	0.2	—	—	10	0-±10	12 μ V p-p ¹
	MC1404-6	6.250	1	25	—	—	0-10	12 μ V p-p ¹
	MC1504-6	6.250	1	—	—	25	0-10	12 μ V p-p ¹
NATIONAL	LM129/329	6.900	5	10	—	10	0.6-15	20 μ V RMS
	LM199	6.950	2	—	1	10.5	0.6-15	20 μ V RMS
	LM199A	6.950	2	—	0.5	10	0.5-10	20 μ V RMS
	LM299	6.950	2	—	1	—	0.5-10	20 μ V RMS
	LM299A	6.950	2	—	0.5	—	0.5-10	20 μ V RMS
	LM399	6.950	5	2	—	—	0.5-10	50 μ V RMS
	LM399A	6.950	5	1	—	—	0.5-10	50 μ V RMS
	LM3999	6.950	5	5	—	—	0.5-10	20 μ V RMS
ANALOG DEVICES	AD584 ^P	7.500	0.05	5	—	10	0-5	50 μ V p-p
	AD584	10.000	0.05	5	—	10	0-5	50 μ V p-p
	AD2700	10.000	0.25	—	3	3	0-10	50 μ V p-p
	AD2701	-10.000	0.25	—	3	3	0-10	50 μ V p-p
	AD2702	± 10.000	0.25	—	5	3	0-±10	50 μ V p-p
	AD2710	10.000	0.25	1	—	—	0-10	50 μ V p-p
	AD2712	± 10.000	0.25	1	—	—	0-±10	50 μ V p-p
FERRANTI	ZN410	10.00	1	—	—	25	0.15-15	10 μ V p-p ¹
HARRIS	HA-1600	10.000	0.05	—	—	1.35	0-2	200 μ V RMS (0.1 Hz TO 1 MHz)
	HA-1602	10.000	0.05	—	—	2.7	0-2	
	HA-1605	10.000	0.05	3.25	—	—	0-2	
	HA-1610	10.000	0.05	3	—	3	0-10	
	HA-1615	10.000	0.05	5	—	5	0-10	
HYBRID SYSTEMS	R675-1	10.000	0.05	10	—	5	5-15	50 μ V p-p
	R675-4	10.000	0.05	10	—	5	5-15	50 μ V p-p
	R675-5	-10.000	0.05	10	—	5	5-15	50 μ V p-p
	R675-3	± 10.000	0.05	10	—	5	0-±15	50 μ V p-p
MICRO POWER SYSTEMS	MP5532/REF-01	10.00	0.3	8.5	—	25	1.4-10	30 μ V p-p
MOTOROLA	MC1400-10	± 10.000	0.2	10	—	—	0-±10	16 μ V p-p ¹
	MC1500-10	± 10.000	0.2	—	—	10	0-±10	16 μ V p-p ¹
	MC1404-10	10.000	1	25	—	—	0-10	12 μ V p-p ¹
	MC1504-10	10.000	1	—	—	25	0-10	12 μ V p-p ¹
NATIONAL	LH0070	10.000	0.05	—	5	—	0-20	20 μ V p-p ¹
	LH0071	10.240	0.05	—	5	—	0-20	20 μ V p-p ¹
	LM368-10	10.000	0.01	5	—	—	0-10	15 μ V RMS
PRECISION MONOLITHICS	REF-01	10.00	3	8.5	—	8.5	0-20	30 μ V p-p
	REF-10	10.00	0.3	25	—	8.5	0-20	30 μ V p-p
TELEDYNE	9496	10.00	0.3	8.5	—	8.5	0-10	30 μ V p-p

NOTES:

1. COMM = 0 TO 70 °C; IND = - 25 TO + 85 °C; MIL = - 55 TO + 125 °C.
2. TOLERANCE IS PERCENT OF SPECIFIED REFERENCE VOLTAGE.
3. LOAD-CURRENT RANGE IS RECOMMENDED OPERATING SPAN. MAXIMUM LOAD CURRENT COULD BE SUBSTANTIALLY HIGHER.
4. UNLESS OTHERWISE STATED, BANDWIDTH OF p-p VALUES IS 0.1 TO 10 Hz AND OF RMS VALUES IS 10 Hz TO 10 KHz.
5. ALL VALUES ARE POSITIVE REFERENCE VOLTAGES UNLESS OTHERWISE INDICATED AS - OR ±. A ± SIGN INDICATES THE DEVICE CAN BE USED EITHER AS A POSITIVE OR A NEGATIVE SOURCE.

t = TYPICAL VALUES

p = PIN-PROGRAMMABLE DEVICE