CA3130/..., CA3130A/...

High-Reliability BiMOS Operational Amplifiers

With MOSFET Input, CMOS Output

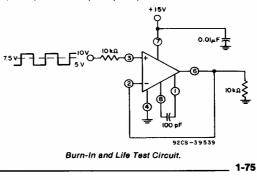
The CA3130 and CA3130A Slash (/) Series types are supplied in the 8-lead TO-5 style package.

TABLE A. POST BURN-IN	I, FINAL ELECTRICAL AN	ND GROUP A SAMPLING TESTS
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		TEST CONDITIONS V ⁺ =+15 V, V ⁻ = 0 V	LIMITS							
CHARACTERISTIC	SYMBOL		MINIMUM			MAXIMUM			UNITS	
		Unless Otherwise Specified	55	+25	+125	-65	+25	+125		
Input Offset Voltage:										
CA3130				-	-	40	25	40		
CA3130A	VIO	V [±] = ±7.5 V			-	20	12	20	mV	
Input Offset Current: CA3130			_		_	500	30	5000		
CA3130	40	V [±] = ±7,5 V	_		_	300	20	3000	рA	
Input Current:						000		3000	. рел.	
CA3130	. ц		_	_	-	50	0.05			
CA3130A		V ^{± = ±7.5} V	-	-	-	40	0.03	40	nA	
Large Signal Voltage Gain: CA 31 30	AOL	V _O = 8 V _P -p (–55, +125°C)	86	94	86	_	_	-		
CA3130A	~OL	V _O = 10 V _{p-p} (25°C)	88	94	88		-		dB	
Common-Mode Rejection Ratio:										
CA3130			64	70	64	ł	-	-		
CA3130A	CMRR		74	80	74	-	-	-	dB	
Common-Mode Input Voltage Range	VICR		0	0	0	10	10	10	v	
Power Supply Rejection Ratio: CA3130			_	_	_	400	320	400		
CA3130A	PSRR	V [±] = ± 7.5 V			_	200	150	200	$\mu V/V$	
Maximum Output	Vom⁺		10	12	10		-	- 1	<u> </u>	
Voltage	VOM-	RL = 2 kΩ	-	-	-	0.05	0.01	0.05	l v	
Maximum Output	∨ом+	RL =∞	14.95	14.99	14.95	-	-	-	v	
Voltage	Vom-	<u>L</u> =	-	-	-	0.05	0.01	0.05	1	
Maximum Output	IOM+	V _O = 0 V	-	12	_	-	45	-	mA	
Current	ом-	V _O = 15 V	-	12	-	-	45	-		
Supply Current	.+	Vo = 7.5V,RL=∞	-	-	-	_	15	-	— mA	
Supply Current	.	Vo = 0V, RL=∞	-	-	-	-	3	-		

PHASE COMPENSATION TAB STROBE OFFSET NULL 0 V+ INV. INPUT 0 0 OUTPUT OFFSET INPUT 0 0 OUTPUT OFFSET OF

Functional diagram of the CA3130 Series.



CA3130/..., CA3130A/...

TABLE B. DELTA LIMITS at $T_A = 25^{\circ}C$, $V^+ = 7.5 V$, $V^- = -7.5 V$ (/1 only)

CHARACTERISTIC			LIMITS	UNITS	
		SYMBOL	MAX.Δ		
	CA3130		±8		
Input Offset Voltage	CA3130A	Vio	±3	mV	
	CA3130		±15		
Input Offset Current	CA3130A	10	±8	pА	
	CA3130	1	±0.01		
Input Current	CA3130A	4	±0.01	nA	

TABLE C. GROUPS AND D END-POINT TESTS at $T_A = 25^{\circ}$ C, $V^{+} = +15$ V, $V^{-} = -15$ V

CHARACTERISTIC		SYMBOL	LIN	·	
		STMBUL	MIN.	MAX.	UNITS
	CA3130		_	30	
Input Offset Voltage	CA3130A	Vio		17	mV
	CA3130		- 1	30	
Input Offset Current	CA3130A	10	_	20	р А
	CA3130		-	0.05	
Input Current	CA3130A] 4	-	0.03	nA
Large Signal Voltage	CA3130]	91	-	T T
Gain	CA3130A	AOL	91	-	dB

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