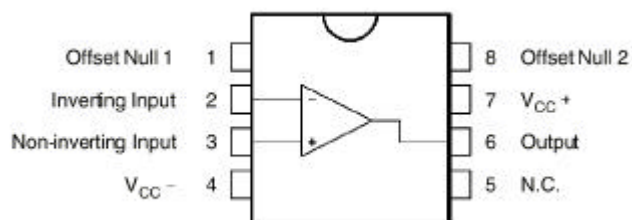


IL9002N OPERATIONAL AMPLIFIER

The IL9002N is a very high precision op amp with an offset voltage maximum of 250 μ V. Offering also low input current (14nA) and high gain (120V/mV), the IL07N is particularly suitable for instrumentation applications.

FEATURES:

EXTREMELY LOW OFFSET : 250mV MAX
LOW INPUT BIAS CURRENT : 14nA
LOW V_{io} DRIFT : 0.5mV/°C
SUPPLY VOLTAGE RANGE : $\pm 13V$ to $\pm 18V$



Symbol	Parameter	Value	Unit
V _{cc}	Supply Voltage	± 15	V
V _d	Differential Input Voltage	± 5	V
V _i	Input Voltage	± 10	V
T _{oper}	Operating Temperature	-10 to +70	°C

ELECTRICAL CHARACTERISTICS

V_{cc} = $\pm 15V$, T_{amb} = +25°C (unless otherwise specified)

Symbol	Parameter	Mode	Min.	Typ.	Max.	Unit
V _o	Max Output Voltage	U _{cc} =15V U _{cc} =16,5V	± 11.5 ± 10			V
V _{io}	Input Offset Voltage	U _{cc} =15V U _{cc} =16,5V			150 250	μ V
I _{cc}	Supply Current	U _{cc} =15V U _{cc} =16,5V			± 12 ± 14	mA
A _{vd}	Large Signal Voltage Gain	U _{cc} =15V U _{cc} =16,5V	120 120			V/mV
CMR	Common Mode Rejection Ratio		94			dB
V _{icm}	Max Input Common Mode Voltage Range		± 13	± 15		V
SVR	Supply Voltage Rejection Ratio		90	-	-	dB
SR	Slew Rate		0.1			V/ μ S
D _{vio}	Input Offset Voltage Drift				6.0	μ V/°C
D _{lio}	Input Offset Current Drift				200	nA/°C



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BELMICROSYSTEMS

IL9002N

Application

