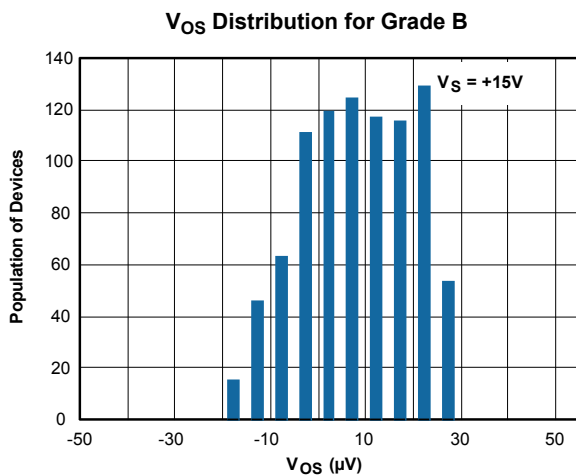
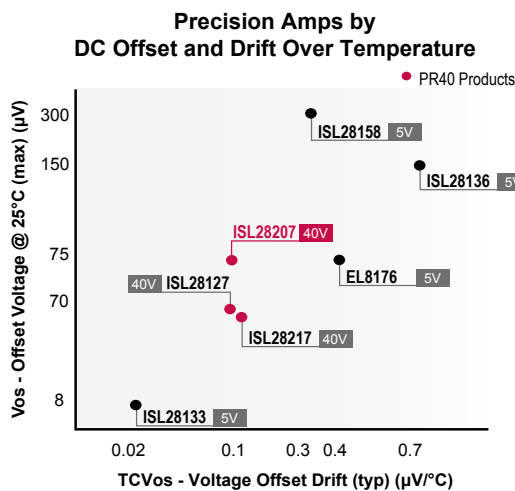


40V Low Power, Low Noise Precision Bipolar Op Amp

New Wave of Amplifiers from Intersil's PR40-Precision-SOI Advance Bipolar Process

Intersil's ISL28217 is a high voltage precision op amp, delivering best in class performance for offset, noise vs. power vs. bandwidth, bias current drift and open loop gain.

Reduce Errors in Your Precision Signal Conditioning
Low offset drift of 0.6 μ V/ $^{\circ}$ C MAX



Key Features

- Low Input Offset $\pm 50\mu\text{V}$, Max.
- Superb Offset TC $0.6\mu\text{V}/^{\circ}\text{C}$, Max.
- Input Bias Current $\pm 1\text{nA}$, Max.
- Input Bias Current TC $\pm 5\text{pA}/^{\circ}\text{C}$, Max.
- Low Current Consumption $440\mu\text{A}$
- Voltage Noise $8\text{nV}/\sqrt{\text{Hz}}$
- Bandwidth 1.5 MHz
- Wide Supply Range $4.5\text{V to }40\text{V}$
- Operating Temperature Range $-40^{\circ}\text{C to }+125^{\circ}\text{C}$

Applications

- Process/Industrial Control and Data Acquisition Analog I/O
- Medical Diagnostic and Instrumentation
- Power Distribution and Monitors
- Motor / Drive Control
- Wireless / Remote Sensors
- Sensor Signal Conditioning
- High voltage signal conditioning



High Voltage (4.5V to 40V) Precision Amplifiers

Part	# Amp	In/Out	V _S Min (V)	V _S Max (V)	I _{SS} /Amp Max	V _{OS} Max	V _{OS} Drift ($\mu\text{V}/^{\circ}\text{C}$ max)	CMRR Min (dB)	PSRR Min (dB)	IB Max	IB Drift Max	V _N @1kHz (nV/ $\sqrt{\text{Hz}}$)	GBW	Slew Rate (V/ μs)	Package	\$ @ 1K
ISL28117B	1	N	4.5	40	530 μA	50 μV	0.6	120	120	1nA	5pA/ $^{\circ}\text{C}$	8	1.5MHz	1	DFN, SOIC	\$0.95
ISL28217B	2	N	4.5	40	530 μA	50 μV	0.6	120	120	1nA	5pA/ $^{\circ}\text{C}$	8	1.5MHz	1	DFN, SOIC, MSOP	\$1.89
ISL28127	1	N	4.5	40	2.8mA	70 μV	0.5	115	115	10nA	NS	2.5	10MHz	3.6	SOIC, TDFN, MSOP	\$1.05
ISL28107	1	N	4.5	40	290 μA	75 μV	0.65	115	115	300pA	0.9pA/ $^{\circ}\text{C}$	13	1MHz	0.3	DFN, SOIC	\$1.15
ISL28207	2	N	4.5	40	290 μA	75 μV	0.65	115	115	300pA	0.9pA/ $^{\circ}\text{C}$	13	1MHz	0.3	DFN, SOIC, MSOP	\$1.58