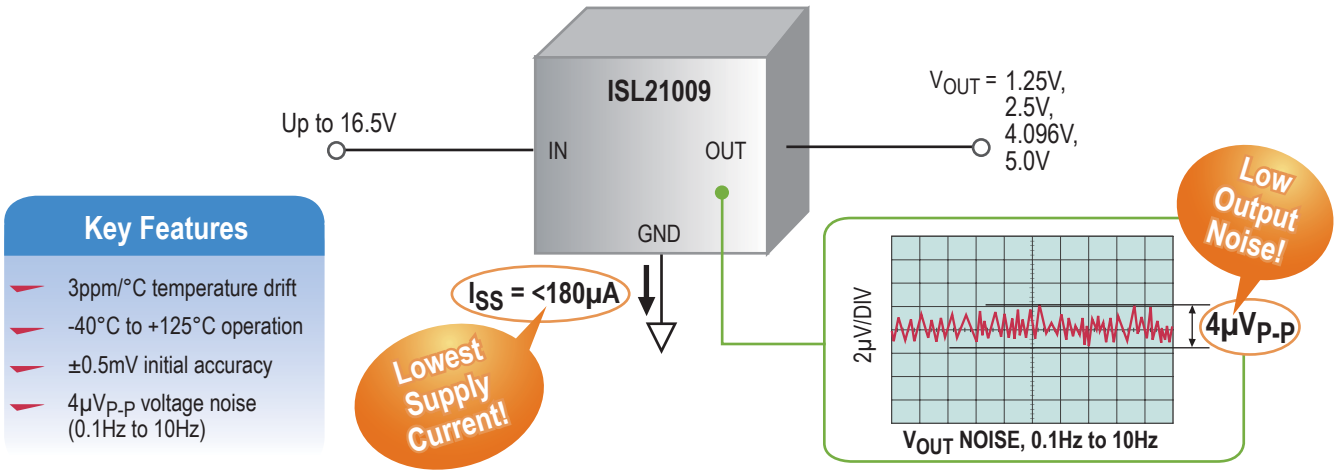
Intersil Voltage Reference

High Performance Analog

pinPOINT PRECISION ANALOG

Industry's Lowest Current Consumption for Low-Noise Voltage References

Intersil's **ISL21009** combines output voltage noise of $4\mu V_{P-P}$ (0.1Hz to 10Hz) and supply current consumption of just 180µA (max, over temperature).



Key Features

- 3ppm/°C temperature drift
- -40°C to +125°C operation
- ±0.5mV initial accuracy
- $4\mu V_{P-P}$ voltage noise (0.1Hz to 10Hz)

Intersil's Complete Line of Ultra-Low Power References

Pb RoHS Compliant

Part Number	Input (V)	V_{OUT} (V)	Initial Acc. (mV)	Tempco (ppm/°C)	I_{SS}	e_N (typ) (μV_{P-P})	Temp. Range (°C)	Package
ISL60002	2.7 to 5.5	1.024	1.0, 2.5, 5.0	20	700nA	30	-40 to +85	3 Ld SOT-23
ISL60002	2.7 to 5.5	1.2	1.0, 2.5, 5.0	20	700nA	30	-40 to +85	3 Ld SOT-23
ISL60002	2.7 to 5.5	1.25	1.0, 2.5, 5.0	20	700nA	30	-40 to +85	3 Ld SOT-23
ISL21009*	3.5 to 16.5	1.25	0.5, 1.0, 2.0	3, 5, 10	180µA	4	-40 to +125	8 Ld SOIC
ISL60002	2.7 to 5.5	1.8	1.0, 2.5, 5.0	20	700nA	30	-40 to +85	3 Ld SOT-23
ISL60002	2.7 to 5.5	2.048	1.0, 2.5, 5.0	20	700nA	30	-40 to +85	3 Ld SOT-23
ISL60002	2.7 to 5.5	2.5	1.0, 2.5, 5.0	20	700nA	30	-40 to +85	3 Ld SOT-23
ISL60007*	2.7 to 5.5	2.5	0.5, 1.0	3, 5, 10	800nA	30	-40 to +85	8 Ld SOIC
ISL21009	3.5 to 16.5	2.5	0.5, 1.0, 2.0	3, 5, 10	180µA	4	-40 to +125	8 Ld SOIC
ISL21007*	2.7 to 5.5	2.5	0.5, 1.0, 2.0	3, 5, 10	180µA	4	-40 to +125	8 Ld SOIC
X60008	4.5 to 6.5	2.5	0.5, 1.0	3, 5, 10	800nA	30	-40 to +85	8 Ld SOIC
ISL60002	3.5 to 5.5	3.3	1.0, 2.5, 5.0	20	700nA	30	-40 to +105	3 Ld SOT-23
X60003	4.5 to 9.0	4.096	1.0, 2.5, 5.0	10, 20	900nA	30	-40 to +85	3 Ld SOT-23
X60008	4.5 to 9.0	4.096	0.5, 1.0	3, 5, 10	800nA	30	-40 to +85	8 Ld SOIC
ISL21009*	4.5 to 16.5	4.096	0.5, 1.0, 2.0	3, 5, 10	180µA	4	-40 to +125	8 Ld SOIC
X60003	5.1 to 9.0	5	1.0, 2.5, 5.0	10, 20	900nA	30	-40 to +85	3 Ld SOT-23
X60008A	5.1 to 9.0	5	0.5	1	800nA	30	-40 to +85	8 Ld SOIC
X60008	5.1 to 9.0	5	0.5, 1.0, 5.0	3, 5, 10, 20	800nA	30	-40 to +85	8 Ld SOIC
ISL21009	5.5 to 16.5	5	0.5, 1.0, 2.0	3, 5, 10	180µA	4	-40 to +125	8 Ld SOIC

* Coming Soon

Intersil – Amplify your performance with advanced signal processing.

intersil® HIGH PERFORMANCE ANALOG

Precision Voltage Reference Selection Guide

Precision Voltage Reference Selection Guide

Part Number	V_O	V_{IN} (MIN) (V)	V_{IN} (MAX) (V)	Initial Acc. (mV)	Tempco (ppm/°C)	Output Current (mA)	Max. I_{SS}	e_N (typ) (μV_{P-P})	Temp Range (°C)	Package	USD$ @ 1Ku	Status
ISL21032BPH306Z	0.6	2.7	5.5	±1.0	2mV	+7/-7	25µA	30	-40 to 130	SOT-23	$2.64	Released
ISL21032CPH306Z	0.6	2.7	5.5	±2.5	2mV	+7/-7	25µA	30	-40 to 130	SOT-23	$1.45	Released
ISL21032DPH306Z	0.6	2.7	5.5	±5.0	1mV	+7/-7	25µA	30	-40 to 130	SOT-23	$0.95	Released
ISL60002BIH310Z	1.024	2.7	5.5	±1.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$2.64	Released
ISL60002CIH310Z	1.024	2.7	5.5	±2.5	20	+7/-7	700nA	30	-40 to 85	SOT-23	$1.45	Released
ISL60002DIH310Z	1.024	2.7	5.5	±5.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$0.95	Released
ISL60002BIH311Z	1.2	2.7	5.5	±1.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$2.64	Released
ISL60002CIH311Z	1.2	2.7	5.5	±2.5	20	+7/-7	700nA	30	-40 to 85	SOT-23	$1.45	Released
ISL60002DIH311Z	1.2	2.7	5.5	±5.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$0.95	Released
ISL60002BIH312Z	1.25	2.7	5.5	±1.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$2.64	Released
ISL60002CIH312Z	1.25	2.7	5.5	±2.5	20	+7/-7	700nA	30	-40 to 85	SOT-23	$1.45	Released
ISL60002DIH312Z	1.25	2.7	5.5	±5.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$0.95	Released
ISL21009BFB812Z	1.25	3.5	3.5 to 16.5	±0.5	3	+7/-7	180µA	4	-40 to 125	SO8	$4.04	1Q07
ISL21009CFB812Z	1.25	3.5	3.5 to 16.5	±1.0	5	+7/-7	180µA	4	-40 to 125	SO8	$3.74	1Q07
ISL21009DFB812Z	1.25	3.5	3.5 to 16.5	±2.0	10	+7/-7	180µA	4	-40 to 125	SO8	$2.64	1Q07
ISL21007BFB812Z	1.25	2.7	5.5	±0.5	3	+7/-7	180µA	4	-40 to 125	SO8	$4.04	2Q07
ISL21007CFB812Z	1.25	2.7	5.5	±1.0	5	+7/-7	180µA	4	-40 to 125	SO8	$3.74	2Q07
ISL21007DFB812Z	1.25	2.7	5.5	±2.0	10	+7/-7	180µA	4	-40 to 125	SO8	$2.64	2Q07
ISL60002BIH318Z	1.8	2.7	5.5	±1.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$2.65	Released
ISL60002CIH318Z	1.8	2.7	5.5	±2.5	20	+7/-7	700nA	30	-40 to 85	SOT-23	$1.45	Released
ISL60002DIH318Z	1.8	2.7	5.5	±5.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$0.95	Released
ISL60002BIH320Z	2.048	2.7	5.5	±1.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$2.65	Released
ISL60002CIH320Z	2.048	2.7	5.5	±2.5	20	+7/-7	700nA	30	-40 to 85	SOT-23	$1.45	Released
ISL60002DIH320Z	2.048	2.7	5.5	±5.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$0.95	Released
ISL60002BIH325Z	2.5	2.7	5.5	±1.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$2.65	Released
ISL60002CIH325Z	2.5	2.7	5.5	±2.5	20	+7/-7	700nA	30	-40 to 85	SOT-23	$1.45	Released
ISL60002DIH325Z	2.5	2.7	5.5	±5.0	20	+7/-7	700nA	30	-40 to 85	SOT-23	$0.95	Released
ISL60007BIB825Z	2.5	2.7	5.5	±0.5	3	+7/-7	800nA	30	-40 to 85	SO8	$4.04	Released
ISL60007CIB825Z	2.5	2.7	5.5	±0.5	5	+7/-7	800nA	30	-40 to 85	SO8	$3.74	Released
ISL60007DIB825Z	2.5	2.7	5.5	±1.0	10	+7/-7	800nA	30	-40 to 85	SO8	$2.64	Released
ISL21009BFB825Z	2.5	3.5	3.5 to 16.5	±0.5	3	+7/-7	180µA	4	-40 to 125	SO8	$4.04	Released
ISL21009CFB825Z	2.5	3.5	3.5 to 16.5	±1.0	5	+7/-7	180µA	4	-40 to 125	SO8	$3.74	Released
ISL21009DFB825Z	2.5	3.5	3.5 to 16.5	±2.0	10	+7/-7	180µA	4	-40 to 125	SO8	$2.64	Released
ISL21007BFB825Z	2.5	2.7	5.5	±0.5	3	+7/-7	180µA	4	-40 to 125	SO8	$4.04	2Q07
ISL21007CFB825Z	2.5	2.7	5.5	±1.0	5	+7/-7	180µA	4	-40 to 125	SO8	$3.74	2Q07
ISL21007DFB825Z	2.5	2.7	5.5	±2.0	10	+7/-7	180µA	4	-40 to 125	SO8	$2.64	2Q07
X60008BIS8Z-25	2.5	4.5	4.5 to 6.5	±0.5	3	+10/-10	800nA	30	-40 to 85	SO8	$4.04	Released
X60008CIS8Z-25	2.5	4.5	4.5 to 6.5	±0.5	5	+10/-10	800nA	30	-40 to 85	SO8	$3.74	Released
X60008DIS8Z-25	2.5	4.5	4.5 to 6.5	±1.0	10	+10/-10	800nA	30	-40 to 85	SO8	$2.64	Released
ISL60002BAH333Z	3.3	3.5	3.5 to 5.5	±1.0	20	+7/-7	700nA	30	-40 to 105	SOT-23	$2.65	Released
ISL60002CAH333Z	3.3	3.5	3.5 to 5.5	±2.5	20	+7/-7	700nA	30	-40 to 105	SOT-23	$1.45	Released
ISL60002DAH333Z	3.3	3.5	3.5 to 5.5	±5.0	20	+7/-7	700nA	30	-40 to 105	SOT-23	$0.95	Released
X60003BIG3Z-41	4.096	4.5	4.5 to 9.0	±1.0	10	+10/-10	900nA	30	-40 to 85	SOT-23	$2.65	Released
X60003CIG3Z-41	4.096	4.5	4.5 to 9.0	±2.5	20	+10/-10	900nA	30	-40 to 85	SOT-23	$1.45	Released
X60003DIG3Z-41	4.096	4.5	4.5 to 9.0	±5.0	20	+10/-10	900nA	30	-40 to 85	SOT-23	$0.95	Released
X60008BIS8Z-41	4.096	4.5	4.5 to 9.0	±0.5	3	+10/-10	800nA	30	-40 to 85	SO8	$4.04	Released
X60008CIS8Z-41	4.096	4.5	4.5 to 9.0	±0.5	5	+10/-10	800nA	30	-40 to 85	SO8	$3.74	Released
X60008DIS8Z-41	4.096	4.5	4.5 to 9.0	±1.0	10	+10/-10	800nA	30	-40 to 85	SO8	$2.64	Released
X60008EIS8Z-41	4.096	4.5	4.5 to 9.0	±5.0	20	+10/-10	800nA	30	-40 to 85	SO8	$0.95	Released
ISL21009BFB841Z	4.096	4.5	4.5 to 16.5	±0.5	3	+7/-7	180µA	4	-40 to 125	SO8	$4.04	2Q07
ISL21009CFB841Z	4.096	4.5	4.5 to 16.5	±1.0	5	+7/-7	180µA	4	-40 to 125	SO8	$3.74	2Q07
ISL21009DFB841Z	4.096	4.5	4.5 to 16.5	±2.0	10	+7/-7	180µA	4	-40 to 125	SO8	$2.64	2Q07
X60003BIG3Z-50	5	5.1	5.1 to 9.0	±1.0	10	+10/-10	900nA	30	-40 to 85	SOT-23	$2.65	Released
X60003CIG3Z-50	5	5.1	5.1 to 9.0	±2.5	20	+10/-10	900nA	30	-40 to 85	SOT-23	$1.45	Released
X60003DIG3Z-50	5	5.1	5.1 to 9.0	±5.0	20	+10/-10	900nA	30	-40 to 85	SOT-23	$0.95	Released
X60008BIS8Z-50	5	5.1	5.1 to 9.0	±0.5	3	+10/-10	800nA	30	-40 to 85	SO8	$4.04	Released
X60008CIS8Z-50	5	5.1	5.1 to 9.0	±0.5	5	+10/-10	800nA	30	-40 to 85	SO8	$3.74	Released
X60008DIS8Z-50	5	5.1	5.1 to 9.0	±1.0	10	+10/-10	800nA	30	-40 to 85	SO8	$2.64	Released
X60008EIS8Z-50	5	5.1	5.1 to 9.0	±5.0	20	+10/-10	800nA	30	-40 to 85	SO8	$0.95	Released
ISL21009BFB850Z	5	5.5	5.5 to 16.5	±0.5	3	+7/-7	180µA	4	-40 to 125	SO8	$4.04	1Q07
ISL21009CFB850Z	5	5.5	5.5 to 16.5	±1.0	5	+7/-7	180µA	4	-40 to 125	SO8	$3.74	1Q07
ISL21009DFB850Z	5	5.5	5.5 to 16.5	±2.0	10	+7/-7	180µA	4	-40 to 125	SO8	$2.64	1Q07

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