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AD2702 - ± 10 Volt Precision Reference Series

Data Sheets

- [Rev B, 08/1999](#) (pdf, 2066K)
-

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Application Notes

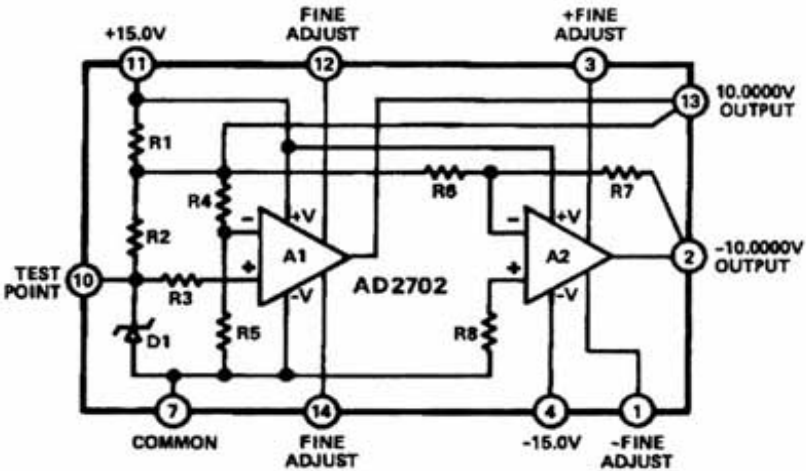
Evaluation Boards

Price, Packaging,
and Availability

Product Description

The AD2700 family of precision 10 volt references offer the user excellent accuracy and stability at a moderate price by combining the recognized advantages of thin film technology and active laser...[More](#)

Functional Block Diagram



Features

- Very High Accuracy: 10,000 Volts $\pm 2.5\text{mV}$ (L and U)
- Low Temperature Coefficient: $3\text{ppm}/^\circ\text{C}$
- Performance Guaranteed -55°C to $+125^\circ\text{C}$
- 10mA Output Current Capability
- Low Noise
- Short Circuit Protected
- Available as /883B

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Price, Packaging, and Availability

AD2702 Model Options

Model	Status	Package	Pins	Temp Range	Price* (100-499)	Available	Lead Free	Samples Cart	Purchase Cart
8503003YA	Prodn	NON-PHYSICAL PROD:NRE,ETC.	14	Comm	\$163.80	1/21/2005	N	-	Add to Cart
8503003YC	Obs	NON-PHYSICAL PROD:NRE,ETC.	14	Comm	-	-	N	-	Contact ADI
8503004YA	Prodn	NON-PHYSICAL PROD:NRE,ETC.	14	Comm	\$175.50	1/21/2005	N	-	Add to Cart
8503004YC	Obs	NON-PHYSICAL PROD:NRE,ETC.	14	Comm	-	-	N	-	Contact ADI
AD2702JD	Prodn	NON-PHYSICAL PROD:NRE,ETC.	14	Ind	\$87.75	1/21/2005	N	-	Add to Cart
AD2702LD	Prodn	NON-PHYSICAL PROD:NRE,ETC.	14	Ind	\$99.45	1/28/2005	N	-	Add to Cart
AD2702SD	Prodn	NON-PHYSICAL PROD:NRE,ETC.	14	Mil	\$111.15	-	N	-	Add to Cart
AD2702SD/883B	Prodn	NON-PHYSICAL PROD:NRE,ETC.	14	Mil	\$163.80	-	N	-	Add to Cart
AD2702UD	Obs	NON-PHYSICAL PROD:NRE,ETC.	14	Mil	-	-	N	-	Contact ADI
AD2702UD/883B	Prodn	NON-PHYSICAL PROD:NRE,ETC.	14	Mil	\$175.50	1/21/2005	N	-	Add to Cart

The pricing listed here is provided only for budgetary purposes as recommended list price in U.S. Dollars in the United States ex factory per unit for the stated volume. Pricing displayed for Evaluation Boards and Kits is based on 1-piece pricing.

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Part#	Vout	Initial Accuracy (%)	Ref Out TC (ppm/C)	0.1-10 Hz Noise (μV p-p)	Ref Output Current (mA)	Supply Voltage Range (V)	Temp Range (s)	Supply Current (Max)	Package	Price* (1000-4999)
ADR06	3	-	3	10	-	-	-40 to +125	0.65mA	SC70, SOIC	\$0.99
ADR433	3	0.03	10	3.75	30	5.0 to 18	-40 to +125	800μA	MSOP, SOIC	\$2.65
AD688	±10 Tracking	0.02	1.5	6	10	(Vout+2) to 36	-40 to +85, -55 to +125	12mA	DIP	\$14.58
ADR423	3	0.04	3	2	10	5.0 to 18	-40 to +125	500μA	MSOP, SOIC	\$2.54

AD584	+2.5/+5/+7.5/+10 Prog	0.05	5	50	10	4.5 to 30	-55 to +125, 0 to +70	1mA	DIP, TO- 52	\$2.74
AD1583	3	0.1	50	85	5	3.2 to 12	-40 to +85	70µA	SOT23	\$0.66
AD1580	1.2	0.08	50	5	n/a	n/a, shunt ref	-40 to +85	n/a	SOT23	\$0.68
ADR530	3	0.2	40	16	n/a	n/a	-40 to +85	50µA	SC70, SOT23	\$0.43
AD589	1.2	1.2	10	5	n/a	n/a	-55 to +125, 0 to +70	50µA	Metal Can, SOIC	\$0.96
REF193	3	0.33	25	30	30	3.1 to 15	-40 to +85	45µA	SOIC	\$1.24
ADR420	2.048	0.05	3	1.75	10	4.0 to 18	-40 to +125	500µA	MSOP, SOIC	\$2.54
REF196	3.3	0.3	25	33	30	3.4 to 15	-40 to +85	45µA	SOIC	\$1.24
REF191	2.048	0.1	5	20	30	2.3 to 15	-40 to +85	45µA	DIP, SOIC	\$1.24
ADR434	4.096	0.03	10	6.23	30	6.1 to 18	-40 to +125	800µA	MSOP, SOIC	\$2.65
ADR520	2.048	0.2	40	14	n/a	n/a	-40 to +85	50µA	SC70, SOT23	\$0.43
REF198	4.096	0.05	5	40	30	3.4 to 15	-	45µA	SOIC	\$1.24
ADR390	2.048	0.29	25	5	5	2.4 to 15	-40 to +85	120µA	SOT23	\$0.77
ADR292	4.096	0.07	8	12	5	4.5 to 18	-40 to +125	15µA	SOIC, TSSOP	\$1.99
ADR421	2.5	0.04	3	1.75	10	4.5 to 18	-40 to +125	500µA	MSOP, SOIC	\$2.54
AD1584	4.096	0.1	50	110	5	4.3 to 12	-40 to +125	70µA	SOT23	\$0.66
AD1582	2.5	0.08	50	70	5	2.7 to 12	-40 to +85	70µA	SOT23	\$0.69
ADR392	4.096	0.15	25	5	5	4.4 to 15	-40 to +85	120µA	SOT23	\$0.77
REF192	2.5	0.08	5	25	30	2.6 to 15	-40 to +85	45µA	DIP, SOIC, TSSOP	\$1.24
ADR540	4.096	0.2	40	18	n/a	n/a	-40 to +85	50µA	SC70, SOT23	\$0.43

AD680	2.5	0.2	20	8	10	4.5 to 36	-40 to +85, 0 to +70	250µA	DIP, SOIC, TO-92	\$1.65
ADR439	4.5	0.04	10	7.5	30	6.5 to 18	-40 to +125	800µA	MSOP, SOIC	\$2.65
ADR381	2.5	0.24	25	5	5	2.8 to 18	-40 to +85	120µA	SOT23	\$0.90
REF194	4.5	0.044	5	45	30	4.6 to 15	-40 to +85	45µA	SOIC	\$1.24
AD580	2.5	0.4	10	8	10	4.5 to 30	-55 to +125, 0 to +70	1.5mA	TO-52	\$2.40
ADR435	5	0.04	10	8	30	7.0 to 18	-40 to +125	800µA	MSOP, SOIC	\$2.65
AD780	+2.5/+3 Pin Programmable	0.04	3	4	10	4 to 36	-40 to +85, -55 to +125	1mA	DIP, SOIC	\$3.88
ADR425	5	0.04	3	3.4	10	7.0 to 18	-40 to +125	500µA	MSOP, SOIC	\$2.54
ADR280	1.2	0.4	40	2.2	n/a	2.4 to 6.0	-40 to +85	16µA	SC70, SOT23	\$0.68
REF195	5	0.04	5	50	30	5.1 to 15	-40 to +85	45µA	SOIC	\$1.24
ADR430	2.048	0.05	10	3.5	30	4.1 to 18	-40 to +125	800µA	MSOP, SOIC	\$2.65
AD586	5	0.04	2	4	10	6.0 to 36	-55 to +125, 0 to +70	3mA	DIP, SOIC	\$2.50
ADR380	2.048	0.24	25	5	5	2.4 to 18	-40 to +85	120µA	SOT23	\$0.90
ADR02	5	0.06	3	10	10	7.0 to 40	-40 to +125, 0 to +70	1mA	SC70, SOIC, SOT23	\$1.04
REF43	2.5	0.06	10	4	20	4.5 to 40	-40 to +85	450µA	DIP, SOIC	\$3.32
ADR293	5	0.06	8	15	5	6.0 to 15	-40 to +125	15µA	SOIC, TSSOP	\$1.99
ADR03	2.5	0.1	3	10	10	4.5 to 40	-40 to +125	1mA	SC70, SOIC, SOT23	\$1.05
AD1585	5	0.1	50	140	5	5.2 to 12	-40 to +85	70µA	SOT23	\$0.67
ADR391	2.5	0.24	25	5	5	2.8 to 18	-40 to +125	120µA	SOT23	\$0.77

ADR395	5	0.12	25	5	5	5.3 to 15	-40 to +125	120µA	SOT23	\$0.77
ADR510	1.0	0.35	70	4	n/a	n/a, shunt ref	-40 to +85	n/a	SOT23	\$0.67
ADR550	5	0.2	40	18	n/a	n/a	-40 to +85	50µA	SC70, SOT23	\$0.43
ADR370	2.048	0.2	50	70	5	2.3 to 15	-40 to +125	72µA	SOT23	\$0.77
REF02	5	0.3	8.5	10	10	7.0 to 40	-40 to +85, -55 to +125, 0 to +70	1.4mA	DIP, TO-99	\$1.09
ADR291	2.5	0.08	8	8	5	3 to 15	-40 to +125	12µA	SOIC, TSSOP	\$1.95
AD588	±5/±10 Pin Programmable	0.01	1.5	6	10	(Vout+2) to 36	-40 to +85, -55 to +125, 0 to +70	10mA	DIP	\$13.66
ADR318	1.8	0.27	5	5	5	2.4 to 15	0 to +70	120µA	SOT23	\$1.25
ADR431	2.5	0.04	10	3.5	30	4.5 to 18	-40 to +125	800µA	MSOP, SOIC	\$2.65
ADR525	2.5	0.2	40	14	n/a	n/a	-40 to +85	50µA	SC70, SOT23	\$0.43
AD581	10	0.05	5	40	10	12 to 30	-55 to +125, 0 to +70	1mA	TO-52	\$3.72
AD587	10	0.05	5	4	10	13.5 to 36	-55 to +125, 0 to +70	4mA	DIP, SOIC	\$2.29
ADR01	10	0.05	3	20	10	12 to 40	-40 to +125, 0 to +70	1mA	SC70, SOIC, SOT23	\$0.99
REF01	10	0.3	8.5	20	10	12 to 40	-40 to +85, -55 to +125	1.4mA	DIP, TO-99	\$1.09

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