



RF Transceivers

ADF70XX development platform for the ADF702X family of ISM band transceivers. The kit allows you to both evaluate and develop a low power, low data rate, wireless network using any of the ADF702X ISM band transceivers with the ADLISMLINK proprietary protocol. **Development Kit Contents for EVAL-ADF70XXMB2:** • 31 x Controller board • 3.6V Lithium battery • USB Cable • Serial Port Cable • Demo/Evaluation Software (ADF7020Demo.exe and ADF7020Registers.exe) • Application Development Code (restricted source code) • Comprehensive Documentation **Development Kit Contents for EVAL-ADF70XXMB:** Same as EVAL-ADF70XXMB2 except it does not come with ADLISMLINK and source code.

Description	Package	Digi-Key Part No.	Price Each		
			1	25	100
RoHS Compliant					
IC Transmitter ASK/FSK/GFSK	24-TSSOP	ADF7012BRUZ-ND	4.44	3.56	2.77
IC Transmitter FSK/ASK ISM Band	48-LFCSP	ADF7020BCPZ-ND	5.63	4.51	3.51
IC Transmitter FSK/ASK ISM Band	48-LFCSP	ADF7020-1BCPZ-ND	5.63	4.51	3.51
IC Transceiver ISM High Performance	48-LFCSP	ADF7021BCPZ-ND	6.46	5.18	4.37
IC Transceiver ISM High Performance	48-LFCSP	ADF7021-NBCPZ-ND	6.46	5.18	4.37
ISM Band Low Power, Zero-IF RF Transceiver IC	48-LFCSP	ADF7025BCPZ-ND	6.46	5.18	4.37

Description	Digi-Key Part No.	Price Each
Mother Board for ADLISMLINK Development	EVAL-ADF70XXMBZ2-ND	183.13
Evaluation Board DB2 for ADF7012	EVAL-ADF7012DBZ2-ND	61.05
Evaluation Board for ADF7020-1, 470 ~ 510MHz	EVAL-ADF7020-1DB6-ND	60.32
Evaluation Board for ADF7020-1, 310 ~ 340MHz	EVAL-ADF7020-1DB7-ND	60.32
Evaluation Board for ADF7901	EVAL-ADF7901EB-ND	101.33

◆ RoHS Compliant

RMS Detectors



Voltage Supply (V)	Supply Current (mA)	RF Freq. (MHz)	Dynamic Range	Temp. Stab. (dB)	Resp. Time (ns)	Package	Digi-Key Part No.	Price Each		
								1	25	100
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	8-MSOP	AD8361ARMZ-ND	8.53	6.83	5.76
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	SOT-23-6	AD8361ARTZ-RL7CT-ND	8.53	6.83	5.76
2.7 ~ 5.5	1.1	2,500	30dB	0.25	320	SOT-23-6	AD8361ARTZ-RL7TR-ND	15862.85/3,000		
4.5 ~ 5.5	2.0	3,800	60dB	1.0	45	16-TSSOP	AD8362ARUZ-ND	12.34	11.11	9.86
4.5 ~ 5.5	60	6,000	50dB	0.50	8,000	16-LFCSP	AD8363ACPZ-R7CT-ND	9.93	8.94	7.93
4.5 ~ 5.5	60	6,000	50dB	0.50	8,000	16-LFCSP	AD8363ACPZ-R7TR-ND	11038.44/1,500		
4.5 ~ 5.5	70	2,700	60dB	0.50	45	32-LFCSP	AD8364ACPZ-REEL7CT-ND	15.61	14.06	12.47
4.5 ~ 5.5	70	2,700	60dB	0.50	45	32-LFCSP	AD8364ACPZ-REEL7TR-ND	17358.00/1,500		
2.7 ~ 5.5	1.1	6,000	30dB	0.25	10,000	4-WLCSOP	ADL5500ACBZ-P7CT-ND	7.02	5.62	4.37
2.7 ~ 5.5	1.1	6,000	30dB	0.25	10,000	4-WLCSOP	ADL5500ACBZ-P7TR-ND	11604.93/3,000		
2.7 ~ 5.5	1.1	6,000	30dB	0.25	6,000	SC70-6	ADL5501AKSZ-R7CT-ND	6.12	4.89	3.81
2.7 ~ 5.5	1.1	6,000	30dB	0.25	6,000	SC70-6	ADL5501AKSZ-R7TR-ND	10265.07/3,000		
2.7 ~ 5.5	—	3,800	30dB	0.25	15,000	8-WLCSOP	ADL5502ACBZ-P7CT-ND	11.17	10.05	8.92
2.7 ~ 5.5	—	3,800	30dB	0.25	15,000	8-WLCSOP	ADL5502ACBZ-P7TR-ND	24418.93/3,000		

‡ Cut Tape † Tape and Reel

Active RF Splitter



Primary Function	-3dB Bandwidth (GHz)	Voltage Supply (V)	No. of Outputs	Package	Digi-Key Part No.	Cut Tape Price Each		
						1	25	100
Active RF Splitter	1.3	5.0	4	20-LFCSP	ADA4302-4ACPZ-RL7CT-ND	5.90	4.73	3.99
Two-output Active Splitter	1.7	5.0	2	12-LFCSP	ADA4303-2ACPZ-R7CT-ND	2.24	1.80	1.35
Active RF Splitter	1.6	5.0	2	16-LFCSP	ADA4304-2ACPZ-R7CT-ND	1.96	1.58	1.18
Active RF Splitter	2.4	5.0	3	16-LFCSP	ADA4304-3ACPZ-R7CT-ND	2.81	2.25	1.69
Active RF Splitter	2.4	5.0	3	16-LFCSP	ADA4304-3ACPZ-R7TR-ND	2188.21/1,500		
Active RF Splitter	2.4	5.0	4	16-LFCSP	ADA4304-4ACPZ-R7CT-ND	4.06	3.26	2.53

† Tape and Reel

RF/IF Amplifiers

Frequency Range (MHz)	Gain (dB)	Output IP3 (dBm)	Noise Fig. (dB)	Supply Voltage (V)	Supply Current (mA)	Package	Function	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Analog Devices Part No.
									1	25	100		Qty.	Pricing	
3,000	26	27	—	5.0	32	10-MSOP	IFA / DIF	AD8351ARMZ-ND	6.53	5.23	4.41			AD8351ARMZ	
10 ~ 2,500	18	41	—	5.5	37	16-LFCSP	IFA / DIF	AD8352ACPZ-R7CT-ND	7.92	6.34	5.35		1,500	4951.54/M	AD8352ACPZ-R7
1 ~ 2,700	20	23.6	5.3	5.0	42	8-LFCSP	Gain Block	AD8353ACPZ-REEL7CT-ND	1.65	1.38	1.10		3,000	714.82/M	AD8353ACPZ-REEL7
1 ~ 2,700	20	19	4.2	5.0	31	8-LFCSP	Gain Block	AD8354ACPZ-REEL7CT-ND	1.65	1.38	1.10		1,500	714.82/M	AD8354ACPZ-REEL7
700 ~ 1,000	20	43	5.0	5.0	320	8-LFCSP	Driver	ADL5322ACPZ-R7CT-ND	7.90	6.32	5.34		3,000	4937.51/M	ADL5322ACPZ-R7
1,700 ~ 2,400	20	43	4.6	5.0	320	8-LFCSP	Driver	ADL5323ACPZ-R7CT-ND	7.90	6.32	5.34		1,500	4937.51/M	ADL5323ACPZ-R7
dc ~ 1,000	16.5	37	3.0	3.0 ~ 5.0	110	8-LFCSP	IFA	ADL5530ACPZ-R7CT-ND	3.99	3.20	2.49		3,000	2234.00/M	ADL5530ACPZ-R7
50 ~ 4000	15	43.0	3.7	5.0	83	89-SOT	Gain Block	ADL5601ARKZ-R7CT-ND	4.42	3.54	2.75		1,000	2503.82	ADL5601ARKZ-R7
50 ~ 4000	20	42	3.3	5.0	89	89-SOT	Gain Block	ADL5602ARKZ-R7CT-ND	4.42	3.54	2.75		1,000	2503.82	ADL5602ARKZ-R7

‡ Tube

(Continued)

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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Log Amp and Detector



RF Freq. (MHz)	Dyn. Range (dB)	Accuracy (dB)	Resp. Time (ns Typ.)	Supp. Volt. (V)	Supp. Curr. (mA)	Package	Digi-Key Part No.	Price Each		
								1	25	100
—	80	±0.4	400	—	—	16-DIP	AD0606JNZ-ND	49.24	45.96	42.68
2,700	60	±0.2	60	2.7 ~ 5.5	19	14-TSSOP	AD8302ARUZ-ND	22.24	20.76	19.28
—	160	±0.1	100	3 ~ 5.5	4.5	14-TSSOP	AD8304ARUZ-ND	21.30	19.88	18.46
—	100	±0.3	1,000	3 ~ 12	5.0	16-LFCSP	AD8305ACPZ-RL7CT-ND	14.77	13.30	11.80
—	100	±0.3	1,000	3 ~ 12	5.0	16-LFCSP	AD8305ACPZ-RL7TR-ND	16422.53/1,500		
5 ~ 400	100	±0.4	73	2.7 ~ 5.5	16	16-SOIC	AD8306ARZ-ND	27.43	25.60	23.77
dc ~ 500	92	±1	400	2.7 ~ 5.5	8.0	8-Dip	AD8307ANZ-ND	11.70	10.54	9.35
dc ~ 500	92	±1	400	2.7 ~ 5.5	8.0	8-SOIC	AD8307ARZ-ND	11.70	10.54	9.35
5 ~ 500	100	±0.4	67	2.7 ~ 5.5	16	16-TSSOP	AD8309ARUZ-ND	16.06	14.46	12.83
dc ~ 440	100	±0.4	15	2.7 ~ 5.5	8.0	8-MSOP	AD8310ARMZ-ND	9.79	7.83	6.61
100 ~ 2,500	50	±0.5	150	2.7 ~ 5.5	8.5	6-WLCSOP	AD8311ACBZ-P7CT-ND	3.21	2.57	2.00
2,500	50	±0.5	150	2.7 ~ 5.5	8.5	6-WLCSOP	AD8311ACBZ-P7TR-ND	5387.04/3,000		
300 ~ 5,000	48	±0.5	70	2.7 ~ 5.5	4.2	6-WLCSOP	AD8312ACBZ-P7CT-ND	3.21	2.57	2.00
5,000	48	±0.5	70	2.7 ~ 5.5	4.2	6-WLCSOP	AD8312ACBZ-P7TR-ND	5387.04/3,000		
100 ~ 2,500	70	±1	40	2.7 ~ 5.5	14	8-MSOP	AD8313ARMZ-ND	18.17	16.96	15.75
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-LFCSP	AD8314ACPZ-RL7CT-ND	2.78	2.23	1.73
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-LFCSP	AD8314ACPZ-RL7TR-ND	4665.94/3,000		
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-REEL7CT-ND	9.38	7.51	6.34
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-REEL7TR-ND	5863.29/1,000		
100 ~ 2,700	45	±0.5	70	2.7 ~ 5.5	4.5	8-MSOP	AD8314ARMZ-ND	9.38	7.51	6.34
1 ~ 4,000	80	±0.5	21	2.7 ~ 5.5	31	16-LFCSP	ADL5513ACPZ-R7CT-ND	10.39	9.36	8.30
1 ~ 4,000	80	±0.5	21	2.7 ~ 5.5	31	16-LFCSP	ADL5513ACPZ-R7TR-ND	11558.14/1,500		
1 ~ 10,000	50	±1	8	3 ~ 5.5	20	8-LFCSP	AD8317ACPZ-R7CT-ND	8.93	7.15	6.03
10,000	50	±1	8	3 ~ 5.5	20	8-LFCSP	AD8317ACPZ-R7TR-ND	16614.25/3,000		
1 ~ 8,000	60	±1	10	4.5 ~ 5.5	68	16-LFCSP	AD8318ACPZ-REEL7CT-ND	9.85	8.88	7.87
1 ~ 8,000	60	±1	10	4.5 ~ 5.5	68	16-LFCSP	AD8318ACPZ-REEL7TR-ND	10955.29/1,500		
1kHz ~ 10,000	64	±0.5	8/10	3 ~ 5.5	56	32-LFCSP	ADL5519ACPZ-R7CT-ND	11.31	9.05	7.64
10,000	64	±0.5	8/10	3 ~ 5.5	56	32-LFCSP	ADL5519ACPZ-R7TR-ND	10604.41/1,500		

✓ NEW! ‡ Cut Tape † Tape and Reel

Mod/Demod



Mod/Demod	RF Freq. (MHz)	IQ Freq. (MHz)	Amplitude Error	Noise Floor (dBm/Hz)	Volt. Supp. (V)	Package	Digi-Key Part No.	Price Each		
								1	25	100
Demod	dc ~ 50	—	0.05dB	-166	—	32-LFCSP	AD8333ACPZ-WP-ND	16.93	15.25	13.53
Demod	dc ~ 50	50	0.25dB	—	±5.0	40-LFCSP	AD8339ACPZ-ND	20.36	19.00	17.64
Vector Mod	700 ~ 1,000	—	—	-149	5.0	24-LFCSP	AD8340ACPZ-REEL7CT-ND	16.45	14.82	13.14
Mod	140 ~ 1,000	80	0.2dB	-155	2.7 ~ 5.5	16-TSSOP	AD8345AREZ-ND	9.38	8.45	7.50
Mod	800 ~ 2,500	70	0.2dB	-147	2.7 ~ 5.5	16-TSSOP	AD8346ARUZ-ND	9.99	7.99	6.75
Demod	800 ~ 2,700	65	0.3dB	—	2.7 ~ 5.5	28-TSSOP	AD8347ARUZ-ND	10.94	9.85	8.74
Demod	50 ~ 1,000	75	0.25dB	—	2.7 ~ 5.5	28-TSSOP	AD8348ARUZ-ND	9.37	8.44	7.48
Mod	2,700	160	0.1dB	-156	5.0	16-TSSOP	AD8349AREZ-ND	9.38	8.45	7.50
Mod	300 ~ 1,300	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5370ACPZ-R7CT-ND	11.31	9.05	7.64
Mod	500 ~ 1,500	700	—	-156	4.75 ~ 5.5	24-LFCSP	ADL5370ACPZ-R7TR-ND	10604.41/1,500		
Mod										