



B

Fig.	Series	Frequency	Size	Operating Distance (m)	Package	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		NXP Part No.
							1	25	100	250		Qty.	Pricing	
1	HITAG	125kHz	256	up to 2.0	FCP2	568-2212-1-ND	.60	.50	.40	.30	568-2212-2-ND	25,000	243.42/M	HTSFCH5601EV/DH-T
			256	up to 1.5	MOA2	568-2201-1-ND	1.13	.91	.68	.64	568-2201-2-ND	16,000	552.38/M	HT2M02S2E3M-T
			256	up to 1.5	SOT-385	568-2203-ND§	4.93	1.39	1.29	1.26	—	—	—	HT2DC20S20M
			256	up to 2.0	MOA2	568-2215-1-ND	.83	.69	.56	.42	568-2215-2-ND	16,000	343.86/M	HTSMOH5601EV-T
1	HITAG	125kHz	2048	up to 1.5	MOA2	568-2202-1-ND	1.72	1.38	1.04	.97	568-2202-2-ND	16,000	842.57/M	HT1M02S3E3M-T
			2048	up to 2.0	FCP2	568-2211-1-ND	1.17	.94	.70	.66	568-2211-2-ND	25,000	559.40/M	HTSFCH4801EV/DH-T
			2048	up to 2.0	MOA2	568-2214-1-ND	1.36	1.09	.82	.76	568-2214-2-ND	16,000	664.70/M	HTSMOH4801EV-T
1	I-CODE®	13.56MHz	136	up to 1.5	FCP2	568-2226-1-ND	.38	.31	.23	.17	568-2226-2-ND	25,000	95.56/M	SL2FCS1001DV/DH-T
			192	up to 1.5	FCP2	568-2227-1-ND	.38	.31	.23	.17	568-2227-2-ND	25,000	95.56/M	SL2FCS1101DV/DH-T
			512	up to 1.5	MOA2	568-2225-1-ND	.73	.55	.41	.31	568-2225-2-ND	16,000	226.43/M	SL1MOA2S30M-T
			1024	up to 1.5	MOA2	568-2228-1-ND	.62	.47	.35	.26	568-2228-2-ND	16,000	192.03/M	SL2MOS2001DVM-T
4	U-CODE	2.45GHz UHF	2048	up to 3.0	8-TSSOP	568-2229-1-ND	.59	.49	.40	.30	568-2229-2-ND	2,500	254.83/M	SL3S3001FTT

§ Bulk

Smart Card ICs

Fig.	Series	Frequency	EEPROM Size (byte)	Package	Digi-Key Part No.	Cut Tape Price Each				Digi-Key Part No.	Tape and Reel		NXP Part No.
						1	25	100	250		Qty.	Pricing	
1	MIFARE® Ultralight	13.56MHz	64	FCP2	568-2216-1-ND	.40	.30	.23	.17	568-2216-2-ND	25,000	121.67/M	MF0FCP2U10/DH-T
					568-2217-1-ND	.40	.30	.23	.17	568-2217-2-ND	25,000	121.67/M	MF0FCP2U11/DH-T
5	MIFARE Standard 1K	13.56MHz	1024	MOA4	568-2219-1-ND	1.05	.88	.71	.53	568-2219-2-ND	16,000	439.42/M	MF1MOA4S50/D-T
					568-2218-1-ND	.92	.77	.62	.46	568-2218-2-ND	25,000	375.58/M	MF1FCP2S50/DH-T
5	MIFARE DESFire	13.56MHz	4096	MOA4	568-2220-1-ND	1.79	1.44	1.08	1.01	568-2220-2-ND	16,000	880.02/M	MF3MOD4001DV/406-T

Reader ICs

Series	Frequency	Package	Digi-Key Part No.	Price Each				Digi-Key Part No.	Tape and Reel		NXP Part No.
				1	25	100	250		Qty.	Pricing	
HITAG	125kHz	14-SOIC	568-2206-5-ND§	1.40	1.31	1.22	1.19	—	—	—	HTRC11001AD
			568-2207-1-ND†	2.10	1.68	1.31	1.24	568-2207-2-ND	2,500	1174.74/M	HTRC11001TD-T
MIFARE®	13.56MHz	32-SOIC	568-2222-5-ND§	4.73	4.42	4.11	4.03	—	—	—	MFRC51T0FED
			568-2223-5-ND§	5.57	5.20	4.83	4.74	—	—	—	MFRC53T0FED
			568-2224-5-ND§	6.08	5.68	5.27	5.17	—	—	—	MFRC53101TD
MIFARE and I-CODE®	13.56MHz	32-SOIC	568-2199-5-ND§	6.90	6.45	5.99	5.87	—	—	—	CLRC63201TD

§ Tube † Cut Tape

I-CODE® Proximity Evaluation Kit

The I-CODE Pegoda reader is based on the SL RC400 reader IC. The SL RC400 reader IC for contactless communication at 13.56MHz. Up to 75mm read/write distance. USB Interface.

Kit Includes: I-CODE Pegoda Reader, USB Cable, SL RC400 Samples, I-CODE sample labels, software, and Users Guide

568-2230-ND (NXP # SLEV400/HAB) 223.53

MIFARE® AND I-CODE® Contactless Smart Card Reader

The Pegoda reader, CL RD701, is a contactless reader based on the CL RC632 reader IC. The CL RC632 is a member of a family of highly integrated reader ICs for contactless communication at 13.56MHz. All layers of ISO14443A+B, ISO 15693 as well as the MIFARE classic crypto are supported. The CL RD701 covers all functionality of the CL RC632 to be able to use this reader as a reference design for a new hardware design. It is designed for easy PC adaptation and application development as well. Typical operating distance 75 - 100mm. CE and FCC compliant.

Kit Includes: CL RD701 Pegoda Reader, USB cable, Ferrite

568-2200-ND (NXP # CLRD701)..... 212.76

MIFARE® Demo Kit

The MF EV700/HAB is based on the MF RD700 Pegoda reader which uses the MF RC500 reader IC. The MF RC500 is a member of the MICORE family of highly integrated reader ICs for contactless communication at 13.56MHz. The MF EV700 evaluation kit is designed to fulfill several requirements. The Pegoda reader covers all functionality of the MF RC500 to be able to use this reader for easy PC adaptation and application development.

Kit Includes:

• MF RD700 Pegoda reader • Software • 5 MIFARE cards

568-2221-ND (NXP # MFEV700HABM) 280.90

MIFARE® EV800 Evaluation Kit

The MIFARE EV800 Evaluation Kit is based on the MF RD700 Pegoda reader. The Pegoda reader covers all functionality of the core component, MF RC500 reader IC, to be able to use this reader for easy PC adaptation and application development.

Kit Includes:

Pegoda reader, MF RD700 • Pegoda CD ROM • 5 MIFARE Cards • Pegoda PCB MF RM700 with USB or RS232 Interface • 5 MF RC 500 sample IC's • Card Size Antenna • 50 Ohm matching circuit

568-3161-ND (NXP # MFEV800HABM) 926.48

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.

Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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RF/IF Systems



Vcc (V)	IF 3 dB Bandwidth	-3dB Limiting	Package	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 2,500
					1	25	100	
4.5 - 8	41MHz	-92 dBm	16-SOIC	568-1202-5-ND† 568-2446-1-ND	3.59 2.29	2.88 1.83	2.24 1.43	— 1280.67/M

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

SPDT RF Switch



Vdd (V)	Idd (µA)	On Switch Time (ns)	Off Switch Time (ns)	Package	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 2,500
						1	25	100	
3 - 5.5	40/300	20	20	8-TSSOP	568-2376-1-ND	1.78	1.43	1.07	909.68/M

*For Tape & Reel part number, change 1-ND to 2-ND

FM Receivers



Vcc (V)	Icc (mA)	RF Input Frequency Type (MHz)	LO Freq. Typical (MHz)	Package	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 2,500
						1	25	100	
4.5 - 8	6.6	500	150	20-SSOP	568-2087-5-ND†	3.35	2.69	2.09	—
4.5 - 8	6.6	500	150	20-SOIC	568-1203-5-ND†	3.51	2.81	2.19	—
4.5 - 8	7.4	500	150	20-SOIC	568-1205-5-ND†	3.35	2.68	2.09	—
2.7 - 6	4.2	150	150	20-SSOP	568-2088-1-ND	3.86	3.09	2.40	2156.92/M
2.7 - 6	5	150	150	20-SSOP	568-2036-1-ND	3.03	2.43	1.89	1694.69/M
2.7 - 6	5	100	100	20-SSOP	568-2037-1-ND	2.00	1.60	1.25	1117.02/M
2.7 - 7	4.2	150	150	20-SSOP	568-2034-1-ND	3.51	2.81	2.19	1964.36/M
2.7 - 6	4.2	150	150	20-SSOP	568-2035-1-ND	3.51	2.81	2.19	1964.36/M
2.7 - 5.5	7	200	200	20-TSSOP	568-2374-1-ND	1.97	1.59	1.24	1107.32/M
2.7 - 5.5	7.5	500	500	20-SSOP	568-4327-1-ND	3.35	2.69	2.09	1877.64/M
2.7 - 5.5	10	500	500	24-TSSOP	568-1106-1-ND	3.67	2.95	2.29	2058.22/M
4.5 - 5.5	8.5	500	500	20-SSOP	568-2378-1-ND	1.68	1.35	1.05	943.67/M
4.5 - 6	6	100	100	20-SSOP	568-2377-1-ND	1.63	1.30	.98	831.43/M

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

RF/IF Mixers with VCO



Vcc (V)	Icc (mA)	RF Input Freq. Typ. (MHz)	LO Freq. Typical (MHz)	Low Noise Amp	Package	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 2,500
							1	25	100	
4.5 - 8	7.4	800 - 1200	1200	Yes	20-SSOP	568-2372-1-ND	2.95	2.37	1.84	1655.72/M
	10.4	800 - 1200	1200	Yes	20-SSOP	568-2373-1-ND	2.61	2.10	1.63	1463.62/M
	2.8	500	200	No	8-SOIC	568-1204-5-ND†	1.45	1.17	.88	—
	2.8	500	200	No	8-DIP	568-2089-5-ND†	1.47	1.18	.89	—

*For Tape & Reel part number, change 1-ND to 2-ND † Tube Pricing

Wideband Linear Mixer



Vs (V)	Is (mA)	Ptot (mW)	RF Output Freq. Range	IF Output Freq. Range	Package	Digi-Key Part No.	Cut Tape Price Each			Tape & Reel Pricing* 3,000
							1	25	100	
4	20	40	800 - 2500MHz	50 - 500MHz	SOT-363	568-2066-1-ND	.72	.55	.41	234.44/M

*For Tape & Reel part number, change 1-ND to 2-ND

General Purpose Wideband Amplifiers



Vs (V)	Is (mA)	Pd (mW)	@ 1GHz			Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000		NXP Part No.
			Nf (dB)	Psat (dBm)	Gain (dB)			P1db (dBm)	1	25		100	Price Each	
6	35	200	4	12.5	22.7	8.3	SOT-363	568-2068-1-ND	.70	.53	.40	568-2068-2-ND	228.50/M	BGA2709 T/R
	20	200	4.7	2	12.9	-2	SOT-363	568-2069-1-ND	.73	.61	.49	568-2069-2-ND	313.91/M	BGA2711 T/R
	25	200	3.9	4.8	21.3	0	SOT-363	568-2070-1-ND	.70	.53	.40	568-2070-2-ND	228.50/M	BGA2712 T/R
	25	200	4.9	11	24	7	SOT-363	568-2071-1-ND	.57	.48	.39	568-2071-2-ND	248.41/M	BGA2716 T/R
	15	200	2.1	1	23	-3	SOT-363	568-2072-1-ND	.57	.48	.39	568-2072-2-ND	248.41/M	BGA2717 T/R
	24.4	200	4.9	10.5	23.2	7.5	SOT-363	568-3545-1-ND	.73	.62	.50	568-3545-2-ND	318.91/M	BGA2776 T/R
4	35	200	4.7	13.8	30	12.2	SOT-363	568-3548-1-ND	.83	.69	.56	568-3548-2-ND	357.61/M	BGM1011 T/R
	15	200	1.8	-4	21.3	-10	SOT-363	568-2073-1-ND	.73	.61	.49	568-2073-2-ND	313.91/M	BGA2748 T/R
	50	200	4.4	12	21	11	SOT-363	568-2074-1-ND	.73	.62	.50	568-2074-2-ND	318.91/M	BGA2771 T/R
5	50	200	4.8	9.7	20.1	6	SOT-363	568-3549-1-ND	.83	.69	.56	568-3549-2-ND	357.61/M	BGM1012 T/R
	27.5	200	4	15	35	12	SOT-363	568-2076-1-ND	.83	.69	.56	568-2076-2-ND	357.61/M	BGM1013 T/R
	21	200	4.2	12.9	32.3	11.2	SOT-363	568-2077-1-ND	.83	.69	.56	568-2077-2-ND	357.61/M	BGM1014 T/R
4.3	200	2.6	-4	22	-10	SOT-363	568-3544-1-ND	.57	.48	.39	568-3544-2-ND	248.41/M	BGA2715 T/R	

Medium-Power Gain Blocks



Vs (V)	Is (mA)	Pd (mW)	@ 850MHz		@ 2500MHz		Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 4,000		NXP Part No.
			Nf (dB)	P1db (dBm)	Nf (dB)	P1db (dBm)			1	25	100		Price Each	Price Each	
4.8	84	20	3	21	3.4	18	SOT-89	568-2075-1-ND	1.63	1.31	1.02	568-2075-2-ND	914.76/M	BGA6589	
4.1	84	16	3.5	17	3.8	14	SOT-89	568-3546-1-ND	1.49	1.20	.90	568-3546-2-ND	763.04/M	BGA6289	
5.1	74	17	3.1	20	3.4	15	SOT-89	568-3547-1-ND	1.63	1.30	.98	568-3547-2-ND	831.43/M	BGA6489	

Two Stage Variable Gain Linear Amplifier



Vs (V)	Is (mA)	Ptot (mW)	Frequency Range (MHz)	@ 900MHz			@ 1900MHz			Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000		NXP Part No.
				DG (dB)	P1db (dBm)	ACPR (dBc)	DG (dB)	P1db (dBm)	ACPR (dBc)			1	25	100		Price Each	Price Each	
3.3	50	200	800 - 2500	24	62	11	23	56	13	SOT-363	568-2067-1-ND	.89	.75	.60	568-2067-2-ND	387.43/M	BGA2031/1 T/R	

Low Noise Wideband Amplifiers



Vs (V)	Is (mA)	Ptot (mW)	Nf (dB)	@ 900MHz		@ 1800MHz		Package	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel Pricing 3,000		NXP Part No.
				Gain (dBm)	IIP3 (dBm)	Gain (dB)	IIP3 (dBm)			1	25	100		Price Each	Price Each	
4.5	30	135	1.3	22	-7.4	1.3	19.5	-4.5	SOT-343R	568-2062-1-ND	.68	.51	.38	568-2062-2-ND	219.53/M	BGA2001 T/R
	30	135	1.8	24	-6.5	1.8	16	-4.8	SOT-343R	568-2063-1-ND	.68	.51	.38	568-2063-2-ND	219.53/M	BGA2003 T/R
	30	135	1.5	19	10	—	—	—	SOT-363	568-2064-1-ND	.64	.49	.37	568-2064-2-ND	208.68/M	BGA2011 T/R
	15	70	—	—	—	—	10	—	SOT-363	568-2065-1-ND	.64	.49	.37	568-2065-2-ND	208.68/M	BGA2012 T/R

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