

Hewlett-Packard Components

OEM Prices
November 1971

DIODE PRODUCTS

DIODE CHIPS FOR HYBRID CIRCUITS

	10-99	100-499	500-999
5082-0001 +	5.00	4.00	
5082-0008 +	9.00	8.00	
5082-0009 +	9.00	7.00	
5082-0012 +	5.00	3.80	
5082-0015 +	8.20	5.00	
5082-0017 +	9.00	8.00	
5082-0020 +	9.00	8.00	
5082-0021 +	9.00	8.00	
5082-0023 +	9.00	7.00	
5082-0024 +	0.99*	0.65	0.40
5082-0025 +	2.45	1.90	1.50
5082-0026 +	1.25*	0.85	0.60
5082-0031 +	0.90*	0.57	0.35
5082-0039 +	2.75	2.20	1.65
5082-0097 +	0.99*	0.65	0.40

* The 5082-0024, -0026, -0031, -0097 require minimum order of 25 units per type.

STEP RECOVERY DIODES

	1-9	10-99
5082-0105 +	25.00	20.00
5082-0112 (1N4949)	10.00	8.20
5082-0113 (1N5163)	11.00	9.35
5082-0114 (1N5164)	20.50	17.50
5082-0132	44.00	37.50
5082-0134	44.00	37.50
5082-0151	22.00	18.75
5082-0153	33.00	28.00
5082-0180	3.25	2.75
5082-0182	20.50	17.50
5082-0240	35.25	30.00
5082-0241	52.50	44.50
5082-0243	75.00	63.75
5082-0251	45.00	38.25
5082-0253 (1N4547)	75.00	63.75
5082-0300	39.00	32.00
5082-0305 +	15.00	12.50
5082-0306 +	15.00	12.50
5082-0308 +	15.00	12.50
5082-0310	39.00	32.00
5082-0312 +	25.00	20.00
5082-0316 +	25.00	20.00
5082-0317 +	25.00	20.00
5082-0318 +	25.00	20.00
5082-0320	39.00	32.00

	1-9	10-99
5082-0321	39.00	32.00
5082-0335	50.00	40.00
5082-0340 +	15.00	12.50
5082-0360	30.00	25.00
5082-0364 +	15.00	12.50
5082-0365	30.00	25.00
5082-0370	30.00	25.00
5082-0375	30.00	25.00
5082-0386	30.00	25.00

IMPATT DIODES

	1-9	10-99
5082-0400 ▼	95.00	75.00
5082-0401 ▼	95.00	75.00
5082-0424 •	150.00	110.00
5082-0425 •	150.00	110.00
5082-0426 •	150.00	110.00
5082-0431	29.00	19.75
5082-0432	29.00	19.75
5082-0433	29.00	19.75
5082-0434	29.00	19.75
5082-0435	29.00	19.75
5082-0436	29.00	19.75
5082-0437	29.00	19.75
5082-0438	29.00	19.75
5082-0439	29.00	19.75

HIGH CONDUCTANCE DIODES

	1-99	100-999
5082-1001 (1N4456)	5.75	4.90
5082-1002	6.00	5.00
5082-1003	5.25	4.45
5082-1004	5.50	4.65
5082-1006 (1N4457)	6.95	5.90

HOT CARRIER DIODES

	1-9	10-99	100-999
5082-2223	18.00	14.80	
5082-2224	39.00	32.00	
5082-2225	15.00	12.25	
5082-2226	33.00	28.00	
5082-2234	15.00	12.25	
5082-2235	33.00	28.00	
5082-2276	22.75	19.50	
5082-2277	34.50	29.60	
5082-2301 (1N5165)	7.25	7.25	5.30
5082-2302 (1N5166)	5.75	5.75	4.30

Most device types with the 5082- prefix are available for same-day shipment from Hewlett-Packard in Palo Alto, California, and Boeblingen, West Germany. Micro-

wave switches and other components are available only from the factory. Prices are in U.S. dollars and subject to change without prior notification.

HOT CARRIER DIODES

	1-9	10-99	100-999	1000-4999		1-9	10-99	100-999	1000-4999
5082-2303 (1N5167)	3.30	3.30	2.40		5082-2815	4.40	4.40	3.50	
5082-2305	12.75	12.75	10.00		5082-2817	1.50	1.50		
5082-2306	23.80	20.25			5082-2818	3.25	3.25		
5082-2308	8.55	6.90			5082-2819	7.00	7.00		
5082-2350 (1N5169)	14.30	12.15			5082-2824	6.50	5.50		
5082-2351	32.00	26.50			5082-2825	14.00	12.00		
5082-2353	8.05	6.90			5082-2826 +	1.50	1.50	1.15	0.75
5082-2354	17.75	15.00			5082-2827	2.50	2.10		
5082-2356	33.00	27.15			5082-2828	5.50	4.50		
5082-2365 (1N5168)	16.50	14.00			5082-2829	11.50	9.70		
5082-2370	27.15	23.65			5082-2833	1.15	1.15	0.90	0.60
5082-2374	64.00	53.00			5082-2835	0.90	0.90	0.67	0.50
5082-2396	33.00	27.15			5082-2844 +	7.00	7.00		
5082-2400	19.25	16.50			5082-2845 +	5.00	5.00		
5082-2401	40.00	34.00			5082-2900	1.75	1.75	1.30	
5082-2409 +	N/A	8.60	6.35		5082-2912	4.35	3.80		
5082-2410 +	N/A	7.10	5.55		5082-2970	11.00	9.25		
5082-2411 +	N/A	10.50	8.30		5082-2996	20.00	16.00		
5082-2412 +	N/A	9.00	7.30		5082-2997	20.00	16.00		
5082-2418	36.25	30.25			B1N5711 +	N/A	2.70	2.25	
5082-2520	5.00	4.25			B1N5712 +	N/A	2.85	2.40	
5082-2521	11.00	9.00			B1N5713 +	N/A	2.70	2.25	
5082-2522	23.00	19.00			TX1N5711 +	N/A	5.80	5.00	
5082-2550	5.50	4.70			TX1N5712 +	N/A	5.95	5.15	
5082-2551	12.00	10.00			TX1N5713 +	N/A	5.80	5.00	
5082-2552	25.00	21.00							
5082-2565	6.00	5.00			PIN DIODES				
5082-2566	13.00	10.50				1-9	10-99	100-299	
5082-2577	4.00	3.50			5082-3000 +	8.00	7.25		
5082-2578	8.50	7.50			5082-3001	12.00	10.00		
5082-2579	6.00	5.00			5082-3002	13.20	11.00		
5082-2580	12.50	10.50			5082-3003	14.00	12.00		
5082-2701	57.00	48.50			5082-3005 +	15.00	13.50		
5082-2702	40.00	36.00			5082-3006 +	N/A	14.25	12.30	
5082-2703	35.00	32.50			5082-3007 +	N/A	15.25	13.25	
5082-2705 +	25.00	21.50			5082-3008 +	N/A	12.35	10.55	
5082-2706	117.00	99.00			5082-3009 +	N/A	13.35	11.50	
5082-2707	83.00	75.00			5082-3010 +	8.00	7.25		
5082-2708	73.00	67.00			5082-3039	5.50	5.00		
5082-2709 +	10.00	8.50			5082-3040	25.00	21.50		
5082-2710 +	15.00	10.00			5082-3041	25.00	21.50		
5082-2711	20.00	15.50			5082-3042	12.00	10.00		
5082-2712	45.00	33.00			5082-3043	7.50	6.50		
5082-2713	27.50	23.50			5082-3045 +	15.00	13.50		
5082-2714	60.00	51.00			5082-3046	35.00	28.50		
5082-2716 +	15.00	12.75			5082-3071	35.00	29.00		
5082-2721	24.50	21.25				1-9	10-99	100-999	
5082-2722	54.00	46.50			5082-3080	2.60	2.60	2.15	
5082-2723	36.00	32.00			5082-3081	2.95	2.95	2.35	
5082-2724	77.00	69.00			5082-3085 +	15.00	13.50		
5082-2750	25.00	21.25			5082-3086 +	8.00	7.25		
5082-2751	20.00	17.00			5082-3101	28.35	24.15		
5082-2752	15.00	12.75			5082-3102	31.50	26.80		
5082-2753 +	15.00	10.00			5082-3201	23.10	19.70		
5082-2754 +	25.00	21.50			5082-3202	26.25	22.30		
5082-2755	16.00	13.60			5082-3258	12.00	10.00		
5082-2758	22.50	19.75			5082-3259	12.00	10.00		
5082-2759	11.50	9.35			5082-3301	20.00	16.00		
5082-2787	6.00	6.00			5082-3302	24.00	20.00		
5082-2800 (1N5711)	0.99	0.99	0.75	0.50	5082-3303	20.00	16.00		
5082-2801 +	5.00	5.00			5082-3304	24.00	20.00		
5082-2802 +	7.00	7.00			5082-3340	25.00	21.50		
5082-2804	2.20	2.20	1.90		OPTOELECTRONICS				
5082-2805	4.40	4.40	3.50		INFRARED EMITTERS				
5082-2806 +	N/A	2.34	2.00			1-9	10-99		
5082-2807 +	N/A	4.24	3.75		5082-4104	66.00	55.00		
5082-2810 (1N5712)	1.15	1.15	0.90	0.60	5082-4107	23.00	20.00		
5082-2811 (1N5713)	0.99	0.99	0.75	0.50	5082-4120	10.00	8.50		
5082-2813	10.40	10.40	8.30						
5082-2814	10.40	10.40	8.30						

PIN PHOTODIODES

	1-9	10-99
5082-4201	46.25	39.50
5082-4203	22.00	18.75
5082-4204	55.00	46.75
5082-4205	17.75	15.00
5082-4207	38.50	33.00
5082-4220	10.00	8.50

PHOTON COUPLED ISOLATORS

	1-9	10-99
5082-4310	44.00	37.50
5082-4320	14.00	12.00
5082-4317 +	10-24 75.00	25-99 60.00

VISIBLE EMITTERS

	1-9	10-99	100-999	1000-4999
5082-4403	1.15	1.15	0.90	0.65
5082-4405	4.90	3.90		
5082-4409*	N/C	N/C		
5082-4415	1.30	1.30	1.05	0.80
5082-4420	4.90	3.90		
5082-4440 •	0.85	0.85	0.60	0.49
5082-4444 •	1.00	1.00	0.75	0.64

* This mounting clip is furnished "no charge" on all orders for quantities up to 99. For larger quantities it must be requested.

SOLID STATE DISPLAYS

NUMERIC DISPLAYS

	1-99	100-499
5082-7000 (1 character)	55.00	40.00
5082-7001 (3 characters)	1-33 165.00	34-166 120.00
5082-7018 (± sign)	1-99 45.00	100-499 35.00

MOUNTING HARDWARE KITS FOR 5082-7000 NUMERIC DISPLAY (DISPLAY NOT INCLUDED)

	1-9	10-99	100-499
5082-7051 (3 digits)	50.00	35.00	25.00
5082-7052 (4 digits)	50.00	35.00	25.00
5082-7053 (5 digits)	50.00	35.00	25.00
5082-7054 (6 digits)	50.00	35.00	25.00
5082-7055 (7 digits)	60.00	45.00	35.00
5082-7056 (8 digits)	60.00	45.00	35.00
5082-7057 (9 digits)	60.00	45.00	35.00
5082-7058 (10 digits)	60.00	45.00	35.00

	1-9	10-99	100-499
5082-7059 (11 digits)	60.00	45.00	35.00
5082-7060 (12 digits)	60.00	45.00	35.00

MOUNTING HARDWARE KITS FOR 5082-7001 NUMERIC DISPLAY (DISPLAY NOT INCLUDED)

	1-9	10-99	100-499
5082-7085 (3 digits)	50.00	35.00	25.00
5082-7086 (6 digits)	50.00	35.00	25.00
5082-7087 (9 digits)	60.00	45.00	35.00
5082-7088 (12 digits)	60.00	45.00	35.00

ALPHANUMERIC DISPLAYS

	1-3	4-33	34-166
5082-7100 ▼ (3 characters)	67.50	54.00	46.50
5082-7101 ▼ (4 characters)	1-2 90.00	3-24 72.00	25-124 62.00
5082-7102 ▼ (5 characters)	1 112.50	2-19 90.00	20-99 77.50

MONOLITHIC NUMERIC DISPLAYS (DIP VERSION)

	1-3	4-33	34-166
5082-7210 (3 characters)	35.85	27.90	23.40
5082-7211 (4 characters)	1-2 47.80	3-24 37.20	25-124 31.20
5082-7212 (5 characters)	1 59.75	2-19 46.50	20-99 39.00

MONOLITHIC NUMERIC DISPLAYS (FLAT PACK VERSION)

	1-3	4-33	34-166
5082-7215 (3 characters)	35.85	27.90	23.40
5082-7216 (4 characters)	1-2 47.80	3-24 37.20	25-124 31.20
5082-7217 (5 characters)	1 59.75	2-19 46.50	20-99 39.00

LOW COST NUMERIC DISPLAYS

	1-99	100-499	500-999
5082-7300 (R.H.D.P.)	16.50	14.00	12.00
5082-7302 (L.H.D.P.)	16.50	14.00	12.00
5082-7304 (±1)	12.50	10.50	9.00

DIGITAL PANEL METER

	1-9	10-49	50-99	100-249
3431A	295.00	275.00	250.00	225.00
3431B	295.00	275.00	250.00	225.00
3431C	295.00	275.00	250.00	225.00

OPTION

002 (3) Gallium Annunciator	7.00
003 20 Volt Input Range	N/C

PREMOUNTED 5082-7000 SERIES NUMERIC DISPLAYS (PRICE OF DISPLAY INCLUDED)
(Available from HPA only)

PART NUMBER	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
5082-7004 (3 digits)	265	265	265	265	265	265	265	265	265	240	240	240	240	240	240
5082-7005 (4 digits)	320	320	320	320	320	320	320	320	320	295	295	295	295	295	295
5082-7006 (5 digits)	375	375	375	375	375	375	375	375	375	350	350	350	350	350	350
5082-7007 (6 digits)	430	430	430	430	430	430	430	430	430	405	405	405	405	405	405
5082-7008 (7 digits)	495	495	495	495	495	495	495	495	495	470	470	470	470	470	365
5082-7009 (8 digits)	550	550	550	550	550	550	550	550	550	525	525	525	405	405	405
5082-7010 (9 digits)	605	605	605	605	605	605	605	605	605	580	580	445	445	445	445
5082-7011 (10 digits)	660	660	660	660	660	660	660	660	660	485	485	485	485	485	485
5082-7012 (11 digits)	715	715	715	715	715	715	715	715	715	525	525	525	525	525	525
5082-7013 (13 digits)	770	770	770	770	770	770	770	770	590	565	565	565	565	565	565

PREMOUNTED 5082-7001 SERIES NUMERIC DISPLAYS (PRICE OF DISPLAY INCLUDED)
(Available from HPA only)

5082-7080 (3 digits)	265	265	265	265	265	265	265	265	265	240	240	240	240	240	240
5082-7081 (6 digits)	430	430	430	430	430	430	430	430	430	405	405	405	405	405	405
5082-7082 (9 digits)	605	605	605	605	605	605	605	605	605	580	580	445	445	445	445
5082-7083 (12 digits)	770	770	770	770	770	770	770	770	590	565	565	565	565	565	565

MICROWAVE MICROELECTRONIC PRODUCTS

MICROWAVE SWITCH MODULES, DC - 18 GHz

	1-9	10-24
33602A	60.00	56.00
33603A	80.00	74.00
33604A	100.00	93.00
33622A	65.00	60.00
33623A	90.00	83.00
33624A	120.00	111.00
33530A	85.00	80.00
33535A	85.00	80.00
33540A	85.00	80.00

MICROWAVE SPST SWITCHES, 0.1 - 18 GHz

	1-9	10-24
33102A	125.00	115.00
33103A	150.00	140.00
33104A	170.00	160.00
33122A	130.00	120.00
33123A	155.00	145.00
33124A	175.00	165.00

MICROWAVE NARROWBAND SPST SWITCHES (Formerly CXX-33600 Series)

	1-9	10-24
33202A	205.00	195.00
33202B	230.00	219.00
33203A	225.00	214.00
33203B	250.00	238.00
33204A	260.00	247.00
33204B	285.00	270.00
33222A	210.00	200.00
33222B	235.00	224.00
33223A	235.00	224.00
33223B	260.00	247.00
33224A	275.00	261.00
33224B	300.00	285.00

MICROWAVE SPDT SWITCHES, DC - 18 GHz

	1-9	10-24
33016A •, with connectors	370.00	345.00
33016B •, to 12 GHz	340.00	315.00
33007A, without connectors	245.00	220.00
33007B, to 12 GHz	195.00	185.00
8761A, mechanical	150.00	140.00
8761B, mechanical	150.00	140.00

MICROWAVE ABSORPTIVE MODULATORS, 40 dB ISOLATION

	1-9	10-24
33000C, 1 - 4 GHz	365.00	350.00
33008C, 3.7 - 8 GHz	395.00	375.00
33001C, 8 - 18 GHz	415.00	395.00

MICROWAVE ABSORPTIVE MODULATORS, 80 dB ISOLATION

	1-9	10-24
33000D, 1 - 4 GHz	525.00	500.00
33008D, 3.7 - 8 GHz	550.00	520.00
33001D, 8 - 18 GHz	575.00	545.00

PROGRAMMABLE ATTENUATORS, DC - 18 GHz

	1-9	10-24
33300A, 12 V	665.00	635.00
33300B, 24 V	665.00	635.00
33300C, 12 V with indicator	690.00	660.00
33300D, 24 V with indicator	690.00	660.00

SINGLE ENDED MIXERS, 2 - 12.4 GHz

	1-9	10-24
33801A/B, positive bias	130.00	120.00
33802A/B, negative bias	130.00	120.00
33803A/B, matched pair	285.00	265.00

DOUBLE BALANCED MIXERS, 0.05 - 500 MHz

	1-9	10-24
10514A, 0.2 - 500 MHz, BNC	90.00	75.00
10514B▼, 0.2 - 500 MHz, pin	35.00	31.00
10514C▼, 0.2 - 500 MHz, pin, miniature	50.00	44.00
10534A, 0.05 - 150 MHz, BNC	70.00	58.00
10534B▼, 0.05 - 150 MHz, pin	32.00	28.00
10534C▼, 0.05 - 150 MHz, pin, miniature	45.00	39.00

MICROWAVE LIMITERS

	1-9	10-24
33701A, no connectors	110.00	102.00
33711A, with connectors	135.00	125.00

MICROWAVE BURNOUT PROTECTED DETECTORS, 7 - 11 GHz

	1-9	10-24
33820A, positive bias	250.00	240.00
33820B, negative bias	250.00	240.00

SRD MODULES, WITH CONNECTORS

	1-9	10-24
33002A, 100 MHz input	200.00	175.00
33003A, 250 MHz	200.00	175.00
33004A, 500 MHz	200.00	175.00
33005A, 1000 MHz	200.00	175.00

SRD MODULES, WITHOUT CONNECTORS

	1-9	10-24
33002B, 100 MHz input	150.00	135.00
33003B, 250 MHz	150.00	135.00
33004B, 500 MHz	150.00	135.00
33005B, 1000 MHz	150.00	135.00

TRANSISTOR CHIPS

	1-9	10-99
35820A, ten-chip package	150.00	125.00
35830A, ten-chip package	150.00	125.00

PACKAGED TRANSISTORS*

	1-99
35821B/E	19.00
35822B/E•	19.00
35823B/E	19.00
35824B/E•	12.50
35825B/E•	19.00
35831B/E	19.00
35832B/E	25.00
Low noise Option 100	60.00
Low noise Option 200	40.00
(Both Options available with 35821E, 35822E, 35823E, and 35825E.)	

HYBRID PREAMPLIFIERS

	1-9	10-24
35000A, 0.1 - 100 MHz	150.00	134.00
35002A, 0.1 - 400 MHz	292.00	248.00
35007A, 400 - 1300 MHz, low noise	490.00	460.00
35007B, 400 - 1300 MHz, medium noise	450.00	420.00

HYBRID POWER AMPLIFIERS

	1-9	10-24
35001A, 0.1 - 100 MHz	200.00	178.00
35005A, 100 - 2000 MHz	1,200.00	1,140.00

DOPPLER RADAR MODULES

	1-9	10-99
35200A•		
Option 101	215.00	195.00
Option 102	175.00	160.00
Option 201	200.00	180.00
Option 202	160.00	145.00

• New product.

▼ Price reduced.

+ Available from HPA only.

* "B" versions are common base configuration, "E" versions are common emitter. Contact factory for common collector requirements.