

Axial Inductors - continued

B78108S Series – RF Inductors - continued

I_N (mA)	L_N (μ H)	Tol. (%)	f_L (MHz)	Q_{min}	f_0 (MHz)	R_{max} (Ω)	f_{res} (MHz)	Mftrs List No.	Order Code
150	680	± 5	0.1	55	0.796	10	1.9	B78108S1684J	608-592
130	1000	± 5	0.1	55	0.252	14	1.6	B78108S1105J	608-609
100	1500	± 5	0.1	50	0.252	23	1.25	B78108S1155J	608-610
80	2200	± 5	0.1	40	0.252	34.7	1.1	B78108S1225J	608-622
62	3300	± 5	0.1	40	0.252	59.5	0.9	B78108S1335J	608-634
55	4700	± 5	0.1	35	0.252	78	0.7	B78108S1475J	608-646

204143

Inductance μ H	Order Code	5+	50+	100+	500+	+
1.0 μ H to 39 μ H	All Values	16.00	14.00	12.00	9.00	--
47 μ H to 820 μ H	All Values	16.00	14.00	12.00	10.00	--
1000 μ H to 4700 μ H	All Values	18.00	16.00	14.00	11.00	--

B82144 Series – RF Inductors



Body L=14.8 max dia.=5.2 max Lead dia.=0.63



- Ferrite drum core RF inductors with flame retardant lacquer coating
- IEC climatic category 55/125/56

I_N (mA)	L_N (μ H)	Tol. (%)	f_L (MHz)	Q_{min}	f_0 (MHz)	R_{max} (Ω)	f_{res} (MHz)	Mftrs List No.	Order Code
2200	1	± 10	1	40	7.96	0.08	200	B82144A2102K	513-532
1600	4.7	± 10	1	40	7.96	0.16	120	B82144A2472K	515-036
1400	10	± 10	0.1	60	2.52	0.22	60	B82144A2103K	515-565
1100	22	± 10	0.1	50	2.52	0.35	12	B82144A2223K	516-533
800	47	± 5	0.1	40	2.52	0.5	5	B82144A2473J	516-545
600	100	± 5	0.1	50	0.796	0.7	3.5	B82144A2104J	516-570
400	220	± 5	0.1	50	0.796	1.6	2.4	B82144A2224J	516-995
280	470	± 5	0.1	40	0.796	2.5	1.5	B82144A2474J	517-070
200	1000	± 5	0.1	60	0.252	3.8	1.2	B82144A2105J	517-896
120	2200	± 5	0.1	60	0.252	9	0.8	B82144A2225J	517-902
90	4700	± 5	0.1	60	0.252	20	0.5	B82144A2475J	517-914
50	10000	± 5	0.01	50	0.0796	42	0.35	B82144A2106J	517-926
40	22000	± 5	0.01	50	0.0796	120	0.26	B82144A2226J	517-938
20	100000	± 5	1	40	0.0796	360	0.12	B82144A2107J	518-300

204141

Inductance μ H	Order Code	5+	50+	100+	500+	+
1	513-532	26.00	22.00	19.00	15.00	--
4.7	515-036	26.00	22.00	19.00	15.00	--
10	515-565	26.00	22.00	19.00	15.00	--
22	516-533	26.00	22.00	19.00	15.00	--
47	516-545	26.00	22.00	19.00	15.00	--
100	516-570	26.00	22.00	19.00	15.00	--
220	516-995	26.00	22.00	19.00	15.00	--
470	517-070	26.00	22.00	19.00	15.00	--
1000	517-896	27.00	24.00	20.00	16.00	--
2200	517-902	27.00	24.00	20.00	16.00	--
4700	517-914	27.00	24.00	20.00	16.00	--
10000	517-926	29.00	25.00	22.00	17.00	--
22000	517-938	30.00	27.00	23.00	18.00	--
100000	518-300	36.00	32.00	27.00	22.00	--

1582 Series



L=11.4 Dia.=5.2 Lead length=35.0 min, Lead dia.=0.73

- A range of RF inductors having a ferrite core encapsulated in a moulded polypropylene coating suitable for use in telecomms, medical, automotive circuits and in most other applications where RF suppression is required
- Lead terminations are tinned copper
- Temperature range -55°C to +85°C. Tolerance $\pm 10\%$.

Inductance (μ H)	Resistance dc (Ω)	Max. dc Current (A)	Q Factor Nom	@ MHz	Self Res. Frequency MHz	Order Code
1	0.04	2.2	45	15	190	118-6786
2.2	0.06	1.8	60	8	130	118-6787
4.7	0.12	1.3	50	8	95	118-6788
10	0.35	0.75	50	8	65	118-6789
22	1.1	0.43	65	2.5	45	118-6790
47	2.5	0.27	70	2.5	20	118-6791
100	4	0.22	65	1.5	14	118-6792
220	7.3	0.2	80	0.8	8	118-6793
470	20	0.12	80	0.8	6.5	118-6794
1000	30	0.1	85	0.8	3	118-6795

204270

Order Code	5+	50+	100+	250+	+
118-6786 to 118-6787	114.00	103.00	98.00	84.00	--
118-6788 to 118-6790	120.00	109.00	104.00	90.00	--
118-6791 to 118-6792	140.00	126.00	121.00	104.00	--
118-6793 to 118-6795	250.00	224.00	214.00	186.00	--

B82500 Series – Low Current



- Ferrite cored multilayer wound Inductors
- Voltage rating 250V ac/dc
- IEC climatic category 55/125/126.

L_N (μ H)	I_N (A)	f_{res} (MHz)	R_{typ} (Ω)	Body Dimensions Dia.	L	Mftrs. List No.	Order Code
3900	0.2	1.8	20	10	32	B82500CA2	504-749
820	0.5	3	2.5	10	32	B82500CA5	976-441
330	1	4.2	0.6	10	32	B82500CA8	976-453
120	2	5.8	0.15	10	32	B82500CA10	976-465

204150

Order Code	1+	10+	50+	100+	+
All Values	295.00	256.00	227.00	171.00	--

B82111E Series – Medium Current



- Single layer winding on ferrite core with insulation sleeving
- Approved to VDE 565-2
- Tolerance $\pm 20\%$

L_N (μ H)	I_N (A)	f_{res} (MHz)	R_{typ} (Ω)	Body Dimensions Dia.	L	Mftrs. List No.	Order Code
470	0.3	25	6.5	6	26	B82111EC27	975-4121
220	0.5	32	2.6	6.5	26	B82111EC26	975-4130
100	1	55	0.65	6.5	26	B82111EC25	975-2102
56	1.5	70	0.3	6.5	26	B82111EC24	975-3346
40	2	90	0.18	7	26	B82111EC23	975-3354
22	3	110	0.07	7	26	B82111EC22	975-3362
12	4	140	0.04	7	26	B82111EC21	975-3370
7	6	180	0.02	7.5	26	B82111EC20	975-3389

204081

Order Code	1+	25+	100+	250+	+
All Values	64.00	58.00	50.00	42.00	--

Power Inductors

Helically wound power inductor



HPI B82559 Series



- Very high rated current
- Extremely low DC resistance
- Suitable for pick and place processes
- Applications includes energy storage chokes for DC/DC & POL converter



DC resistance Measured at 20°C ambient temperature
 Operating temperature -40°C to 130°C
 Tolerance $\pm 10\%$
 Weight 2.2g

Inductance (μ H)	R_{max} (Ω)	Mftrs. List No.	Order Code
0.50	1.1	B82559A0501A013	111-2809
0.95	1.4	B82559A0951A013	111-2810
1.1	2.2	B82559A0112A013	111-2811
1.4	1.8	B82559A0142A013	111-2812
2.2	4.2	B82559A0222A013	111-2813
2.4	3.2	B82559A0242A013	111-2814
3	5.1	B82559A0302A013	111-2815
3.9	6	B82559A0392A013	111-2816

423468

Order Code	5+	25+	100+	250+	+
All Values	124.00	103.00	88.00	69.00	--