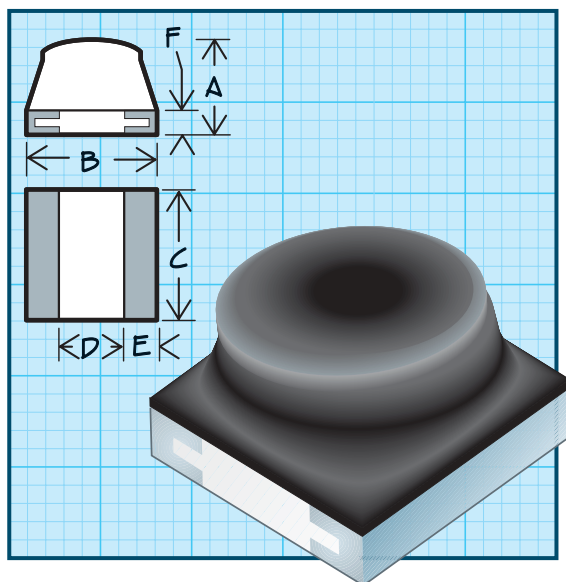


Series 3094

Micro i® Chip Inductors



Physical Parameters

	Inches	Millimeters
A	0.140 Max.	3.56 Max.
B	0.147 to 0.163	3.73 to 4.14
C	0.117 to 0.133	2.97 to 3.38
D	0.070 Min.	1.78 Min.
E	0.017 to 0.033	0.43 to 0.84
F	0.020 Max. (Typ)	0.51 Max. (Typ.)

Current Rating at 90°C Ambient 35°C Rise

Operating Temperature Range -55°C to +125°C

Maximum Power Dissipation at 90°C 0.155 W

Inductance tolerance desired is specified by suffixing an alpha character to the part number: F = 1%, G = 2%, H = 3%, J = 5%, K = 10%, and M = 20%. Standard series tolerance is $\pm 10\%$. For inductance values less than .10 μ H, minimum tolerance is $\pm 5\%$.

Termination Standard-Tin/Lead Sn63.

Contact factory for other finish options.

Mechanical Configuration Units are epoxy encapsulated. Contact area for reflow are solder coated. Internal connections are thermal compression bonded.

Packaging Tape & reel (12mm): 7" reel, 650 pieces max.; 13" reel, 2500 pieces max.

MIL-PRF-83446/10 (Reference)

Made in the U.S.A.

PART NUMBER
MIL DASH # (Reference)
INDUCTANCE (μ H) $\pm 10\%$
Q MINIMUM
TEST FREQUENCY (MHz)
SRF MINIMUM (MHz)
DC RESISTANCE MAXIMUM (OHMS)
CURRENT RATING MAX. (mA)

M83446/10- (Reference)		SERIES 3094 IRON CORE						
3094-100KS	62	0.010	60	150	2000.0	0.040	1000	
3094-120KS	63	0.012	60	150	1800.0	0.040	1000	
3094-150KS	64	0.015	60	150	1500.0	0.040	1000	
3094-180KS	65	0.018	60	150	1500.0	0.040	1000	
3094-220KS	66	0.022	60	100	1300.0	0.050	1000	
3094-270KS	67	0.027	60	100	1300.0	0.050	1000	
3094-330KS	68	0.033	60	100	1000.0	0.050	1000	
3094-390KS	69	0.039	60	100	1000.0	0.060	900	
3094-470KS	70	0.047	65	100	800.0	0.060	900	
3094-560KS	71	0.056	65	100	760.0	0.060	900	
3094-680KS	72	0.068	65	100	700.0	0.070	840	
3094-820KS	73	0.082	65	100	650.0	0.070	840	
3094-101KS	74	0.100	65	50	570.0	0.070	840	
3094-121KS	75	0.120	65	50	520.0	0.070	840	
3094-151KS	76	0.150	75	50	400.0	0.080	790	
3094-181KS	77	0.180	75	50	360.0	0.080	790	
3094-221KS	78	0.220	70	50	320.0	0.080	790	
3094-271KS	79	0.270	70	50	270.0	0.10	700	
3094-331KS	80	0.330	70	50	240.0	0.10	700	
3094-391KS	81	0.390	70	50	220.0	0.10	700	
3094-471KS	82	0.470	70	25	190.0	0.14	590	
3094-561KS	83	0.560	70	25	170.0	0.19	510	
3094-681KS	84	0.680	70	25	160.0	0.26	430	
3094-821KS	85	0.820	75	25	150.0	0.30	400	
3094-102KS	86	1.00	75	25	130.0	0.34	380	
3094-122KS	87	1.20	65	7.9	120.0	0.45	330	
3094-152KS	88	1.50	65	7.9	110.0	0.57	290	
3094-182KS	89	1.80	65	7.9	100.0	0.72	260	
3094-222KS	90	2.20	65	7.9	80.0	0.90	230	
3094-272KS	91	2.70	65	7.9	60.0	1.10	210	
3094-332KS	92	3.30	60	7.9	50.0	1.20	200	
3094-392KS	93	3.90	60	7.9	45.0	1.40	180	
3094-472KS	94	4.70	60	7.9	42.0	1.60	170	
3094-562KS	95	5.60	65	7.9	40.0	1.80	160	
3094-682KS	96	6.80	65	7.9	37.0	2.40	140	
3094-822KS	97	8.20	65	7.9	34.0	3.00	130	
3094-103KS	98	10.0	65	7.9	29.0	3.50	120	
3094-123KS	99	12.0	60	2.5	27.0	3.60	118	
3094-153KS	100	15.0	60	2.5	22.0	3.70	115	
3094-183KS	101	18.0	60	2.5	17.0	3.80	114	
3094-223KS	102	22.0	60	2.5	16.0	3.90	113	
3094-273KS	103	27.0	65	2.5	15.0	4.00	110	
3094-333KS	104	33.0	65	2.5	14.0	5.00	100	
3094-393KS	105	39.0	65	2.5	13.0	7.00	84	
3094-473KS	106	47.0	70	2.5	12.0	8.00	79	
3094-563KS	107	56.0	70	2.5	11.0	10.0	70	
3094-683KS	108	68.0	65	2.5	10.0	11.0	67	
3094-823KS	109	82.0	60	2.5	9.0	12.0	64	
3094-104KS	110	100.0	60	2.5	8.0	13.0	62	
3094-124KS	111	120.0	40	0.79	7.0	14.0	59	
3094-154KS	112	150.0	40	0.79	6.0	16.0	56	
3094-184KS	113	180.0	40	0.79	5.0	18.0	52	
3094-224KS	114	220.0	40	0.79	4.0	24.0	45	
3094-274KS	115	270.0	40	0.79	3.3	25.0	44	
3094-334KS	116	330.0	40	0.79	3.1	29.0	41	
3094-394KS	117	390.0	40	0.79	2.9	32.0	39	
3094-474KS	118	470.0	35	0.79	2.4	35.0	37	
3094-564KS	119	560.0	35	0.79	2.1	45.0	33	
3094-684KS	120	680.0	35	0.79	1.9	55.0	30	
3094-824KS	121	820.0	30	0.79	1.8	70.0	26	
3094-105KS	122	1000.0	30	0.79	1.7	80.0	25	

Notes 1) Designed specifically for reflow soldering and other high temperature processes with metalized edges to exhibit solder fillet. 2) Self Resonant Frequency (SRF) values 270 MHz and above are calculated and for reference only. 3) Optional marking is available.