



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

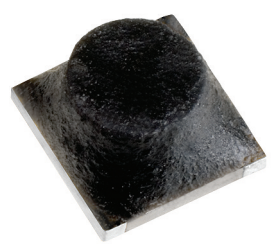
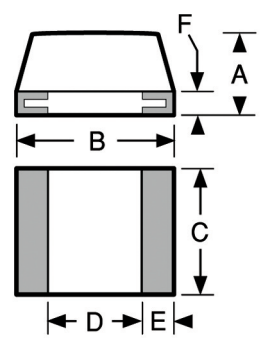
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Micro i® Low Profile Chip Inductors



Actual Size

Physical Parameters

	Inches	Millimeters
A	0.050 Max.	1.27 Max.
B	0.100±0.010	2.54±0.254
C	0.100±0.010	2.54±0.254
D	0.050 Min.	1.27 Min.
E	0.015 Min. (Typ.)	0.38 Min. (Typ.)
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 0.105 W

Core Material Powdered iron core for improved temperature stability.

Mechanical Configuration Units are epoxy encapsulated. Contact area for reflow soldering are gold plated per MIL-G-45204 Type 1 Grade A. Internal connections are thermal compression bonded.

Termination Finish Options

Standard: Gold over Nickel.

For Tin/Lead over Nickel: Add suffix "S" to part number and allow an additional .010 inch for maximum height. For RoHS, order 3090R - XXXKS.

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 250 MHz and above are calculated and for reference only.

Packaging Tape & reel (8mm): 7" reel, 2000 pieces max.; 13" reel, 8000 pieces max.

MIL-PRF-83446 (Reference) for testing methods only.

Made in the U.S.A.

DASH NUMBER*	INDUCTANCE (μH)	TOLERANCE	Q MINIMUM	TEST FREQUENCY (MHz)	SRF MINIMUM (MHz)	DC RESISTANCE MAXIMUM (OHMS)	CURRENT RATING MAXIMUM (mA)
SERIES 3090 IRON CORE							
-100M	0.010	± 20%	42	50.0	1000	0.095	890
-150M	0.015	± 20%	42	50.0	1000	0.115	810
-220M	0.022	± 20%	40	50.0	1000	0.140	765
-330K	0.033	± 10%	40	50.0	900	0.185	640
-390K	0.039	± 10%	40	50.0	900	0.100	870
-470K	0.047	± 10%	38	50.0	900	0.110	830
-560K	0.056	± 10%	35	50.0	800	0.135	750
-680K	0.068	± 10%	30	50.0	700	0.16	690
-820K	0.082	± 10%	25	50.0	650	0.19	630
-101K	0.10	± 10%	32	25.0	510	0.08	970
-121K	0.12	± 10%	32	25.0	410	0.10	870
-151K	0.15	± 10%	32	25.0	370	0.12	795
-181K	0.18	± 10%	32	25.0	330	0.14	765
-221K	0.22	± 10%	34	25.0	300	0.16	690
-271K	0.27	± 10%	34	25.0	250	0.20	615
-331K	0.33	± 10%	34	25.0	220	0.25	550
-391K	0.39	± 10%	34	25.0	200	0.30	500
-471K	0.47	± 10%	34	25.0	180	0.36	460
-561K	0.56	± 10%	34	25.0	160	0.45	410
-681K	0.68	± 10%	30	25.0	140	0.50	390
-821K	0.82	± 10%	28	25.0	120	0.60	355
-102K	1.00	± 10%	24	25.0	100	0.70	330
-122K	1.20	± 10%	24	7.9	95	1.10	265
-152K	1.50	± 10%	24	7.9	90	1.20	250
-182K	1.80	± 10%	24	7.9	85	1.25	245
-222K	2.20	± 10%	25	7.9	80	1.30	240
-272K	2.70	± 10%	25	7.9	70	1.50	225
-332K	3.30	± 10%	25	7.9	65	1.90	200
-392K	3.90	± 10%	25	7.9	60	2.30	180
-472K	4.70	± 10%	24	7.9	55	3.00	160
-562K	5.60	± 10%	22	7.9	53	3.50	145
-682K	6.80	± 10%	22	7.9	50	4.00	135
-822K	8.20	± 10%	22	7.9	45	4.50	130
-103K	10.0	± 10%	20	7.9	40	5.00	120

Optional Tolerances: J = 5% H = 3% G = 2% F = 1%

*Complete part # must include series # PLUS the dash #

For surface finish information, refer to www.delevanfinishes.com