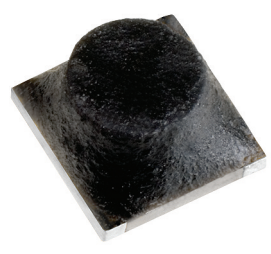
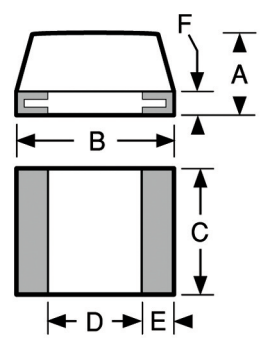




**Micro i® Low Profile Chip Inductors**



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)
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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](http://www.delevanfinishes.com)