



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

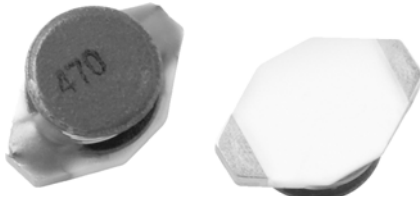
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High Current, Surface Mount Inductors



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μH to 1000 μH , tested at 1.0 V_{RMS}
Inductance Tolerance: 20 %, tighter tolerance available upon request
Operating Temperature: - 40 °C to + 125 °C
Resistance to Solder Heat: 260 °C for 10 s

FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



RoHS
 COMPLIANT
 HALOGEN
FREE

MECHANICAL SPECIFICATIONS

Core: Ferrite
Wire: Enamelled copper wire
Base: Ceramic
Terminals: Gold over nickel
Adhesive: Epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS					
INDUCTANCE (μH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I_{SAT} (A)	I_{RMS} (A)
1.0	$\pm 20 \%$	100	0.05	2.9	2.9
1.5	$\pm 20 \%$	100	0.05	2.6	2.8
2.2	$\pm 20 \%$	100	0.07	2.3	2.4
3.3	$\pm 20 \%$	100	0.08	2.0	2.0
4.7	$\pm 20 \%$	100	0.09	1.5	1.5
6.8	$\pm 20 \%$	100	0.13	1.2	1.4
10	$\pm 20 \%$	100	0.16	1.1	1.1
15	$\pm 20 \%$	100	0.23	0.90	1.2
22	$\pm 20 \%$	100	0.37	0.70	0.80
33	$\pm 20 \%$	100	0.51	0.58	0.60
47	$\pm 20 \%$	100	0.64	0.50	0.50
68	$\pm 20 \%$	100	0.86	0.40	0.40
100	$\pm 20 \%$	100	1.27	0.31	0.30
150	$\pm 20 \%$	100	2.00	0.27	0.25
220	$\pm 20 \%$	100	3.11	0.22	0.20
330	$\pm 20 \%$	100	3.80	0.18	0.16
470	$\pm 20 \%$	100	5.06	0.16	0.15
680	$\pm 20 \%$	100	9.20	0.14	0.12
1000	$\pm 20 \%$	100	13.8	0.10	0.07

Notes

- Inductance drop = 10 % typ. at I_{SAT}
- $\Delta T = 15 \text{ }^\circ\text{C}$ typ. at I_{RMS}

DIMENSIONS in inches [millimeters]								
A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J
0.260 [6.60]	0.175 [4.45]	0.115 [2.92]	0.050 [1.27]	0.040 [1.02]	0.170 [4.32]	0.055 [1.40]	0.160 [4.06]	0.140 [3.56]

DESCRIPTION				
IDC-2512	10 μH	$\pm 20 \%$	ER	e4
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER												
I	D	C	2	5	1	2	E	R	1	0	0	M
PRODUCT FAMILY			SIZE			PACKAGE CODE		INDUCTANCE VALUE			TOL.	



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