

# High Current, Surface Mount Inductor



## ELECTRICAL SPECIFICATIONS

**Inductance Range:** 1.0 H to 1000  $\mu$ H, tested at 1.0 Vrms

**Inductance Tolerance:** 20 %, tighter tolerances available upon request

**Operating Temperature:** - 40 °C to + 125 °C

**Resistance to Solder Heat:** 260 °C for 10 seconds

## FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- 100 % Lead (Pb)-free and RoHS compliant



**RoHS**  
COMPLIANT

## MATERIALS

**Core:** Ferrite

**Wire:** Enamelled copper wire

**Base:** LCP

**Terminal:** Nickel bronze

**Adhesive:** Epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS					
INDUCTANCE ( $\mu$ H)	TOLERANCE	TEST FREQUENCY L (KHz)	DCR MAXIMUM (Ohms)	Isat (Amps)	Irms (Amps)
1.0	$\pm 20\%$	100	0.009	20.0	8.6
2.2	$\pm 20\%$	100	0.014	16.0	7.1
3.3	$\pm 20\%$	100	0.018	14.0	6.2
5.6	$\pm 20\%$	100	0.020	12.0	5.3
10	$\pm 20\%$	100	0.031	10.0	4.3
15	$\pm 20\%$	100	0.036	8.0	4.0
22	$\pm 20\%$	100	0.047	7.0	3.5
33	$\pm 20\%$	100	0.066	5.5	3.0
47	$\pm 20\%$	100	0.086	4.5	2.6
68	$\pm 20\%$	100	0.13	3.5	2.3
100	$\pm 20\%$	100	0.19	3.0	1.8
150	$\pm 20\%$	100	0.25	2.6	1.5
220	$\pm 20\%$	100	0.38	2.4	1.2
330	$\pm 20\%$	100	0.56	1.9	1.0
470	$\pm 20\%$	100	0.85	1.4	0.82
680	$\pm 20\%$	100	1.1	1.2	0.72
1000	$\pm 20\%$	100	1.8	1.0	0.56

Inductance drop = 10 % typ. at Isat  
 $\Delta T = 40$  °C typ. at Irms

DIMENSIONS [in inches millimeters]								
A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J
0.730 [18.54]	0.600 [15.24]	0.280 [7.11]	0.100 [2.54]	0.100 [2.54]	0.500 [12.70]	0.115 [2.92]	0.490 [12.45]	0.110 [2.79]

DESCRIPTION				
<b>IDC-7328</b> MODEL	<b>10 <math>\mu</math>H</b> INDUCTANCE VALUE	<b><math>\pm 20\%</math></b> INDUCTANCE TOLERANCE	<b>ER</b> PACKAGE CODE	<b>e3</b> JEDEC LEAD FREE STANDARD
GLOBAL PART NUMBER				
<b>I</b> <b>D</b> <b>C</b> PRODUCT FAMILY	<b>7</b> <b>3</b> <b>2</b> <b>8</b> SIZE	<b>E</b> <b>R</b> PACKAGE CODE	<b>1</b> <b>0</b> <b>0</b> INDUCTANCE VALUE	<b>M</b> TOL.



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## SMD Magnetics Packaging Methods

TAPE AND REEL in inches [millimeters]											
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>Tape and Reel</p> <p>User Direction of Feed</p> </div> <div style="text-align: center;"> <p>Carrier Dimensions</p> </div> </div>											
MODEL	PACKAGE CODE			REEL SIZE	CARRIER TAPE WIDTH (W)	COMPONENT PITCH (P)	UNITS/ REEL	PACKAGE CODE			UNITS/ BULK
	PREVIOUS CODE	GLOBAL CODE LEAD BEARING	GLOBAL CODE LEAD (Pb)-FREE					PREVIOUS CODE	GLOBAL CODE LEAD BEARING	GLOBAL CODE LEAD (Pb)-FREE	
IHLP-1616AB-01	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	4000	-	-	EB	100
IHLP-1616AB-11	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	4000	-	-	EB	100
IHLP-1616BZ-01	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	4000	-	-	EB	100
IHLP-1616BZ-11	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	4000	-	-	EB	100
IHLP-2525AH	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	2000	-	-	EB	100
IHLP-2525BD	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	2000	-	-	EB	100
IHLP-2525CZ	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	2000	-	-	EB	100
IHLP-2525EZ	-	-	ER	13	0.630 [16.0]	0.472 [12.0]	500	-	-	EB	100
IHLP-4040DZ	-	-	ER	13	0.945 [24.0]	0.630 [16.0]	500	-	-	EB	100
IHLP-5050CE	-	-	ER	13	0.945 [24.0]	0.630 [16.0]	500	-	-	EB	100
IHLP-5050EZ	-	-	ER	13	0.945 [24.0]	0.630 [16.0]	250	-	-	EB	100
IHLP-5050FD	-	-	ER	13	0.945 [24.0]	0.630 [16.0]	250	-	-	EB	100
IHLM-2525CZ	-	-	ER	13	0.630 [16.0]	0.315 [8.0]	2000	-	-	EB	100
IHSM-3825	RC2	RE	ER	13	0.945 [24.0]	0.472 [12.0]	750	P09	PJ	EB	100
IHSM-4825	RC2	RE	ER	13	0.945 [24.0]	0.472 [12.0]	750	P09	PJ	EB	100
IHSM-5832	RC3	RF	ER	13	1.26 [32.0]	0.472 [12.0]	500	P09	PJ	EB	100
IHSM-7832	RC4	RG	ER	13	1.73 [44.0]	0.472 [12.0]	500	P09	PJ	EB	100
IDC-2512	R96	NB	ER	13	0.630 [16.0]	0.315 [8.0]	2000	-	-	-	-
IDC-5020	R96	NB	ER	13	0.630 [16.0]	0.472 [12.0]	500	-	-	-	-
IDC-7328	R96	NB	ER	13	0.945 [24.0]	0.945 [24.0]	250	-	-	-	-
IDCS-2512	R96	NB	ER	13	0.630 [16.0]	0.315 [8.0]	2000	-	-	-	-
IDCS-5020	R96	NB	ER	13	0.630 [16.0]	0.472 [12.0]	500	-	-	-	-
IDCS-7328	R96	NB	ER	13	0.945 [24.0]	0.945 [24.0]	250	-	-	-	-
IDCP-1813	R96	NB	ER	13	0.472 [12.0]	0.315 [8.0]	2000	-	-	-	-
IDCP-2218	R96	NB	ER	13	0.472 [12.0]	0.315 [8.0]	1500	-	-	-	-
IDCP-3114	R96	NB	ER	13	0.630 [16.0]	0.472 [12.0]	1000	-	-	-	-
IDCP-3020	R96	NB	ER	13	0.630 [16.0]	0.472 [12.0]	1000	-	-	-	-
IDCP-3722	R96	NB	ER	13	0.945 [24.0]	0.472 [12.0]	800	-	-	-	-
IDCP-3916	R96	NB	ER	13	0.945 [24.0]	0.472 [12.0]	800	-	-	-	-
IFC-0603	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	5000	-	-	-	-
IFC-0805	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	5000	-	-	-	-
IFCB-0402	-	-	ER	7	0.315 [8.0]	0.079 [2.0]	10 000	-	-	-	-
IFCB-0603	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	5000	-	-	-	-
ILC-0402	-	-	ER	7	0.315 [8.0]	0.079 [2.0]	10 000	-	-	-	-
ILC-0603	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
IMC-0402	-	-	ER	7	0.315 [8.0]	0.079 [2.0]	10 000	-	-	-	-
IMC-0402-01	-	-	ER	7	0.315 [8.0]	0.079 [2.0]	10 000	-	-	-	-
IMC-0603	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
IMC-0603-01	-	-	ER	7	0.315 [8.0]	0.079 [2.0]	3000	-	-	-	-
IMC-0805	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
IMC-0805-01	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-



TAPE AND REEL in inches [millimeters]											
MODEL	PACKAGE CODE			REEL SIZE	CARRIER TAPE WIDTH (W)	COMPONENT PITCH (P)	UNITS/ REEL	PACKAGE CODE			UNITS/ BULK
	PREVIOUS CODE	GLOBAL CODE LEAD BEARING	GLOBAL CODE LEAD FREE					PREVIOUS CODE	GLOBAL CODE LEAD BEARING	GLOBAL CODE LEAD FREE	
IMC-1008	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-
IMC-1210	R98/RB3	SY/AN	ER/ET	7	0.315 [8.0]	0.157 [4.0]	2000	B13	BN	EB	500
	R99/RB4	SZ/R9	ES/EU	13	0.315 [8.0]	0.157 [4.0]	7500				
IMC-1210-100	R98/RB3	SY/AN	ER/ET	7	0.315 [8.0]	0.157 [4.0]	2000	B13	BN	EB	500
	R99/RB4	SZ/R9	ES/EU	13	0.315 [8.0]	0.157 [4.0]	7500				
IMC-1812	R73/R92	RV/RX	ER/ET	7	0.472 [12.0]	0.315 [8.0]	500	B13	BN	EB	500
	R13/R91	RQ/RW	ES/EU	13	0.472 [12.0]	0.315 [8.0]	2000				
IMCH-1812	-	-	ER	7	0.472 [12.0]	0.315 [8.0]	500	-	-	-	-
IMC-2220	-	-	ER	13	0.630 [16.0]	0.472 [12.0]	1000	-	-	-	-
ISC-1008	-	-	ER	13	0.472 [12.0]	0.157 [4.0]	750	-	-	-	-
ISC-1210	R98/RB3	SY/AN	ER/ET	7	0.315 [8.0]	0.157 [4.0]	2000	B13	BN	EB	500
	R99/RB4	SZ/R9	ES/EU	13	0.315 [8.0]	0.157 [4.0]	7500				
ISC-1812	R73/R92	RV/RX	ER/ET	7	0.472 [12.0]	0.315 [8.0]	500	B13	BN	EB	500
	R13/R91	RQ/RW	ES/EU	13	0.472 [12.0]	0.315 [8.0]	2000				
ICM-0805	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-
ICM-1206	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-
ILSB-0603	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILSB-0805 (0.047 - 2.2 μH)	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILSB-0805 (2.7 - 33 μH)	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
ILSB-1206	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
ILBB-0402	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	10 000	-	-	-	-
ILBB-0603	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILBB-0805	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILB-1206	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
	RT4	ND	ES	13	0.315 [8.0]	0.157 [4.0]	10 000				
ILBB-1210	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-
ILBB-1806	RC8	RK	ER	7	0.472 [12.0]	0.157 [4.0]	2000	-	-	-	-
ILBB-1812	RC8	RK	ER	7	0.472 [12.0]	0.157 [4.0]	1000	-	-	-	-
ILHB-0603	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILHB-0805	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILHB-1206	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
ILHB-1806	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-
ILHB-1812	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	1000	-	-	-	-
ILAS-1206	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
LPE-3325	R94	RY	ER	13	0.945 [24.0]	0.472 [12.0]	1000	S51	SM	EB	10
LPE-4841	R94	RY	ER	13	0.945 [24.0]	0.630 [16.0]	600	S51	SM	EB	10
LPE-5047	R94	RY	ER	13	0.945 [24.0]	0.630 [16.0]	600	S51	SM	EB	10
LPE-6562	R94	RY	ER	13	1.26 [32.0]	0.787 [20.0]	300	S51	SM	EB	10
LPE-6855	R94	RY	ER	13	1.26 [32.0]	0.787 [20.0]	450	S51	SM	EB	10
LPE-3325-CST	-	-	ER	13	0.945 [24.0]	0.472 [12.0]	1000	-	-	EB	10
LPT-3535	RC5	RH	ER	13	0.945 [24.0]	0.630 [16.0]	600	S51	SM	EB	10
LPT-4545	RC5	RH	ER	13	0.945 [24.0]	0.630 [16.0]	600	S51	SM	EB	10