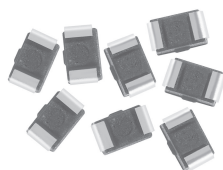


Inductors

High Frequency, Surface Mount, Molded



FEATURES

- High self-resonant frequency values
- High Q values at higher frequencies
- Molded construction provides superior strength and moisture resistance
- Wirewound construction
- Tape and reel packaging for automatic handling, 3000/reel, EIA481
- Compatible with vapor phase and infrared reflow soldering
- 100 % Lead (Pb)-free and RoHS compliant


RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

IND. (nH)	TOL.	TEST FREQ. L & Q (MHz)	Q MIN.	Q TYPICAL			SELF- RESONANT FREQ. MIN. (MHz)	DCR ± 30 % (Ohms)	RATED DC CURRENT (mA)
				100 MHz	800 MHz	1.8 GHz			
10	± 10 %	100	10	22	65	110	3300	0.14	540
12	± 10 %	100	10	22	65	105	3300	0.18	535
15	± 10 %	100	12	23	70	100	3000	0.18	520
18	± 10 %	100	12	25	75	95	3000	0.22	480
22	± 10 %	100	15	25	75	80	2600	0.22	465
27	± 10 %	100	15	25	75	—	2500	0.26	455
33	± 5 %, ± 10 %	100	15	28	80	—	2050	0.30	395
39	± 5 %, ± 10 %	100	15	28	70	—	2000	0.31	390
47	± 5 %, ± 10 %	100	15	28	70	—	1650	0.35	385
56	± 5 %, ± 10 %	100	15	28	60	—	1550	0.39	360
68	± 5 %, ± 10 %	100	15	28	—	—	1450	0.44	340
82	± 5 %, ± 10 %	100	15	28	—	—	1100	0.48	330
100	± 5 %, ± 10 %	25.2	8	25	—	—	800	0.66	285
120	± 5 %, ± 10 %	25.2	8	24	—	—	600	0.76	275
150	± 5 %, ± 10 %	25.2	10	25	—	—	600	1.13	230
180	± 5 %, ± 10 %	25.2	10	25	—	—	600	1.24	195
220	± 5 %, ± 10 %	25.2	10	25	—	—	500	1.41	170
270	± 5 %, ± 10 %	25.2	10	25	—	—	300	1.50	165
330	± 5 %, ± 10 %	25.2	10	20	—	—	200	1.66	160
390	± 5 %, ± 10 %	25.2	10	20	—	—	150	1.82	150
470	± 5 %, ± 10 %	25.2	10	18	—	—	150	1.97	145
560	± 5 %, ± 10 %	25.2	10	15	—	—	100	2.07	140
680	± 5 %, ± 10 %	25.2	10	—	—	—	100	2.32	130
820	± 5 %, ± 10 %	25.2	10	—	—	—	80	2.60	125
1000	± 5 %, ± 10 %	7.96	8	—	—	—	80	2.98	120

NOTE: Tighter tolerance product may be substituted based on availability.

ELECTRICAL SPECIFICATIONS

Inductance Range: 3.9 nH to 1000 nH

Inductance Tolerance: ± 20 % for 3.9 nH to 8.2 nH

± 10 % for 6.8 nH to 1000 nH

± 5 % for 33 nH to 1000 nH

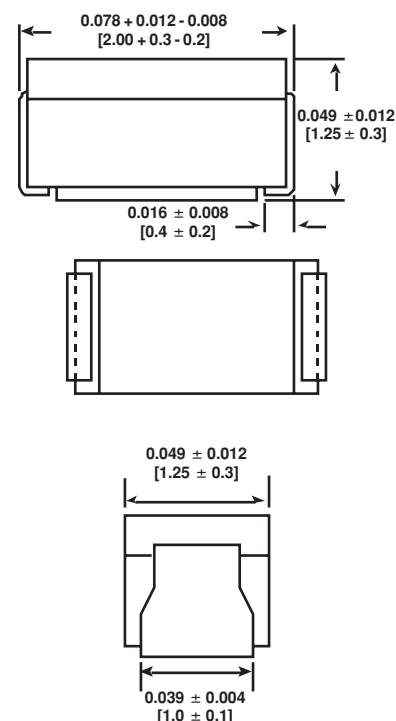
Temperature Range: - 40 °C to +105 °C (no load). - 40 °C to + 85 °C (at full rated current)

Core Material: Non-magnetic.

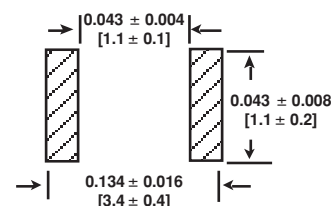
TEST EQUIPMENT

- Inductance and Q measured on HP4191A
- SRF measured on HP8753B

DIMENSIONS in inches [millimeters]



Recommended Pad Layout



DESCRIPTION

IMC-0805 MODEL	10 nH INDUCTANCE VALUE	± 1 0% INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD FREE STANDARD
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GLOBAL PART NUMBER

I	M	C	0	8	0	5	E	R	1	0	N	K
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.



Notice

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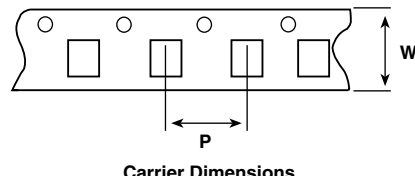
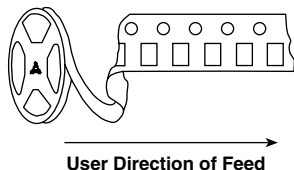
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SMD Magnetics Packaging Methods

TAPE AND REEL in inches [millimeters]

Tape and Reel



Carrier Dimensions

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 μ H)	RC8	RK	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILSB-0805 (2.7 - 33 μ H)	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

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