

Vishay Dale

Low Profile, High Current Inductors



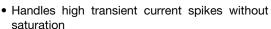
STANDARD ELECTRICAL SPECIFICATIONS											
L ₀ INDUCTANCE ± 20 % AT 100 kHz, 0.25 V, 0 A (μH)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. (A) ⁽³⁾	SATURATION CURRENT DC TYP. (A) (4)							
0.56	17	22	5.40	5.50							
1.0	20	25	3.80	3.80							
1.2	25	30	3.60	3.60							
2.2	35	45	3.00	3.00							
3.3	45	56	2.70	2.40							
4.7	70	90	2.20	2.00							
6.8	90	115	1.90	1.50							
8.2	105	132	1.40	1.40							
10.0	135	170	1.30	1.30							
15.0	185	222	1.25	1.00							
22.0	250	315	1.20	0.83							
33.0	405	486	0.90	0.68							
47.0	495	594	0.80	0.56							

Notes

- (1) All test data is referenced to 25 °C ambient
- (2) Operating temperature range 55 °C to + 125 °C
- (3) DC current (A) that will cause an approximate ΔT of 40 °C
- (4) DC current (A) that will cause L₀ to drop approximately 30 %
- (5) The part temperature (ambient + temp. rise) should not exceed 125 °C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

FEATURES

- Shielded construction
- Frequency range up to 5.0 MHz

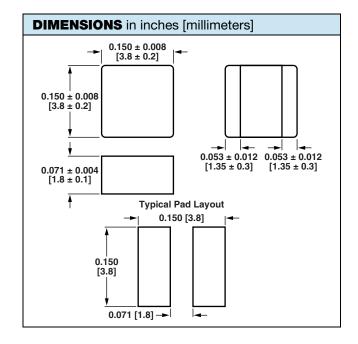


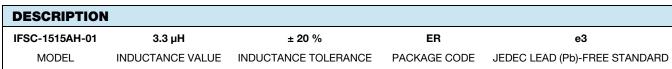


 Material categorization: For definitions of compliance please see <u>www.vishav.com/doc?99912</u>

APPLICATIONS

- PDA/notebook/desktop/server applications
- High current POL converters
- Low profile, high current power supplies
- · Battery powered devices
- DC/DC converters in distributed power systems
- DC/DC converter for field programmable gate array (FPGA)

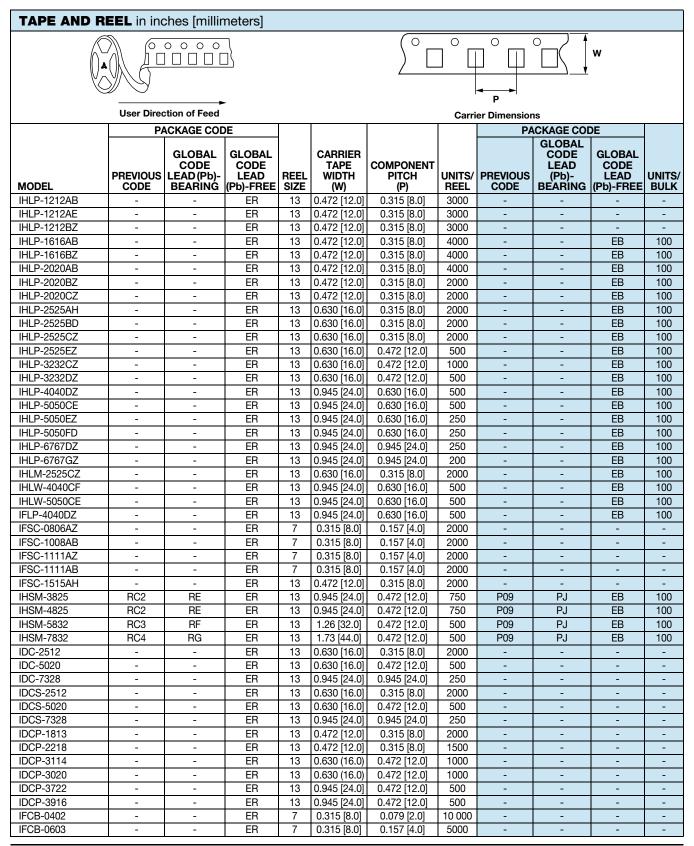






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SMD Magnetics Packaging Methods



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			GLOBAL	-	CARRIER					GLOBAL	
MODEL	PREVIOUS CODE	CODE LEAD (Pb)- BEARING	CODE LEAD (Ph)-FRFF	REEL SIZE	TAPE WIDTH (W)	COMPONENT PITCH (P)	UNITS/ REEL	PREVIOUS CODE	LEAD (Pb)- REARING	CODE LEAD (Pb)-FREE	UNITS/ BULK
ILC-0402	-	-	ER	7	0.315 [8.0]	0.079 [2.0]	10 000	-	- DEATHING	(1 b)-111LL	-
ILC-0603	_		ER	7	0.315 [8.0]	0.157 [4.0]	4000	_		_	
ILC-0805	_	_	ER	7	0.315 [8.0]	0.157 [4.0]	4000				
IMC-0402	_	_	ER	7	0.315 [8.0]	0.137 [4.0]	10 000	_	<u>-</u>	_	
IMC-0402-01	_		ER	7	0.315 [8.0]	0.079 [2.0]	10 000	_	_	_	-
IMC-0402-01	_		ER	7	0.315 [8.0]	0.157 [4.0]	4000				
IMC-0603-01	_	_	ER	7	0.315 [8.0]	0.079 [2.0]	3000	_	_	_	_
IMC-0805	_	_	ER	7	0.315 [8.0]	0.079 [2.0]	3000				
IMC-0805-01	_	_	ER	7	0.315 [8.0]	0.157 [4.0]	2000	_	_	_	
IMC-0803-01			ER	7	0.315 [8.0]	0.157 [4.0]	2000			_	-
	R98/RB3	SY/AN	ER/ET	7	0.315 [8.0]	0.157 [4.0]	2000	_	_	_	
IMC-1210	R99/RB4	SZ/R9	ES/EU	13	0.315 [8.0]	0.157 [4.0]	7500	B13	BN	EB	500
IMC-1210-100	R98/RB3 R99/RB4	SY/AN SZ/R9	ER/ET ES/EU	7	0.315 [8.0] 0.315 [8.0]	0.157 [4.0] 0.157 [4.0]	2000 7500	B13	BN	EB	500
IMC-1812	R73/R92 R13/R91	RV/RX RQ/RW	ER/ET ES/EU	7	0.472 [12.0] 0.472 [12.0]	0.315 [8.0] 0.315 [8.0]	500 2000	B13	BN	EB	500
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 R99/RB4	SY/AN SZ/R9	ER/ET ES/EU	7	0.315 [8.0] 0.315 [8.0]	0.157 [4.0] 0.157 [4.0]	2000 7500	B13	BN	EB	500
ISC-1812	R73/R92 R13/R91	RV/RX RQ/RW	ER/ET ES/EU	7	0.472 [12.0] 0.472 [12.0]	0.315 [8.0] 0.315 [8.0]	500 2000	B13	BN	EB	500
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	_	_	_	
ICM-2824	_	_	ER	13	0.630 [16.0]	0.472 [12.0]	2000	_	_	_	_
ICM-3528	_	_	ER	13	0.945 [24.0]	0.472 [12.0]	900	_	_	_	_
ICM-4743	-	_	ER	13	0.945 [24.0]	0.630 [16.0]	500	_	_	_	_
ILSB-0603	_	_	ER	7	0.315 [8.0]	0.157 [4.0]	4000	_	_	_	_
ILSB-0805 (0.047 µH to 2.2 µH)	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILSB-0805 (2.7 μH to 33 μH)	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
ILSB-1206	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
ILBB-0402	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	10 000	-	-	-	-
ILBB-0603	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILBB-0805	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILB-1206	-	-	ER ES	7 13	0.315 [8.0] 0.315 [8.0]	0.157 [4.0] 0.157 [4.0]	3000 10 000	-	-	-	-
ILBB-1210	-	=	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-
ILBB-1806	-	-	ER	7	0.472 [12.0]	0.157 [4.0]	2000	-	-	-	-
ILBB-1812	-	-	ER	7	0.472 [12.0]	0.157 [4.0]	1000	-	-	-	-
ILHB-0603	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILHB-0805	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	4000	-	-	-	-
ILHB-1206	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	3000	-	-	-	-
ILHB-1806	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	2000	-	-	-	-
ILHB-1812	-	-	ER	7	0.315 [8.0]	0.157 [4.0]	1000	-	-	-	-
ILAS-1206	-	-	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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