

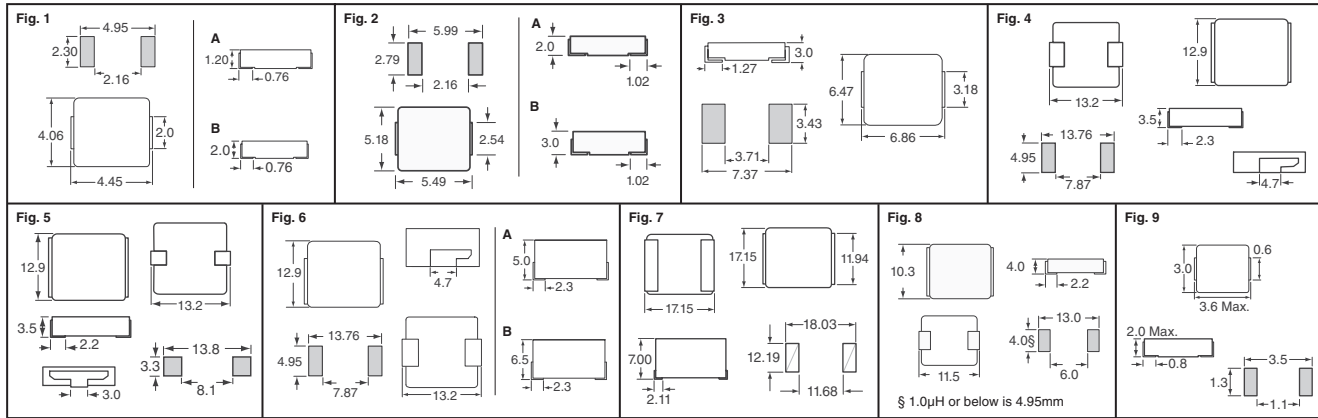
VISHAY Dale High Current Low Profile Surface Mount Inductors – IHLP Series



Features: • Shielded construction • Frequency range up to 5.0MHz (1.0MHz for IHLP1616AB/BZ and IHLP2020BZ/CZ-1 series; 2.0MHz for IHLP6767GZ-01 series; 750KHz for IHLP6767GZ-1 series) • Lowest DCR/μH, in this package size • Handles high transient current spikes without saturation • Ultra low buzz noise, due to composite construction
Specifications: • All test data is referenced to 25°C ambient • **Operating Temperature Range:** -55°C – 125°C • **Inductance Tolerance:** ±20%

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 converters for Field Programmable Gate Array (FPGA)
Applications for IHLP6767GZ-01 Series: • Desktop/server applications • High current buck and boost converters • Low profile, high current power supplies • DC/DC converters in distributed power systems • High current noise filter

Dimensions in mm



E

Fig.	Inductance ±20% @ 100kHz 0.25 V, 0 A (μH)	DCR Typical 25°C (mΩ)	DCR Max. 25°C (mΩ)	Heat Rating Current DC Typical (A)†	Saturation Current DC Typical (A)‡	Digi-Key Part No.	Cut Tape Price Each			Digi-Key Part No.	Tape and Reel		Vishay Part No.	
							1	10	100		Qty.	Pricing		
1A	0.22	11.0	12.0	8.5	20.0	541-1041-1-ND	2.14	1.74	1.45	541-1041-2-ND	4,000	983.06/M	IHLP1616ABERR22M01	
	0.47	20.0	22.0	5.0	13.0	541-1042-1-ND	2.14	1.74	1.45	541-1042-2-ND	4,000	983.06/M	IHLP1616ABERR47M01	
	1.0	50.0	52.5	4.0	8.5	541-1043-1-ND	2.14	1.74	1.45	541-1043-2-ND	4,000	983.06/M	IHLP1616ABER170M01	
	1.0	43.0	47.0	4.2	4.5	541-1044-1-ND	2.14	1.74	1.45	541-1044-2-ND	4,000	983.06/M	IHLP1616ABER170M11	
	2.2	90.0	100.0	2.75	3.0	541-1045-1-ND	2.14	1.74	1.45	541-1045-2-ND	4,000	983.06/M	IHLP1616ABER2R2M11	
1B	0.22	7.3	8.0	13.0	24.0	541-1046-1-ND	2.17	1.76	1.47	541-1046-2-ND	4,000	997.11/M	IHLP1616BZER2R2M01	
	1.0	33.0	37.0	3.75	8.5	541-1047-1-ND	2.17	1.76	1.47	541-1047-2-ND	4,000	997.11/M	IHLP1616BZER170M01	
	2.2	80.0	90.0	2.85	6.0	541-1048-1-ND	2.17	1.76	1.47	541-1048-2-ND	4,000	997.11/M	IHLP1616BZER2R2M01	
	1.0	24.0	27.0	4.5	5.0	541-1049-1-ND	2.17	1.76	1.47	541-1049-2-ND	4,000	997.11/M	IHLP1616BZER170M11	
	2.2	61.0	68.0	3.25	3.25	541-1050-1-ND	2.17	1.76	1.47	541-1050-2-ND	4,000	997.11/M	IHLP1616BZER2R2M11	
2A	4.7	95.0	105.0	1.7	1.75	541-1051-1-ND	2.17	1.76	1.47	541-1051-2-ND	4,000	997.11/M	IHLP1616BZER4R7M11	
	0.10	2.7	2.9	21.0	25.0	541-1211-1-ND	1.96	1.59	1.33	541-1211-2-ND	2,000	898.80/M	IHLP2020BZER170M11	
	0.10	3.6	3.9	17.0	45.0	541-1082-1-ND	1.96	1.59	1.33	541-1082-2-ND	2,000	898.80/M	IHLP2020BZER110M01	
	0.22	4.1	4.5	17.0	13.0	541-1213-1-ND	1.96	1.59	1.33	541-1213-2-ND	2,000	898.80/M	IHLP2020BZER22M11	
	0.22	4.9	5.2	15.0	22.0	541-1083-1-ND	1.96	1.59	1.33	541-1083-2-ND	2,000	898.80/M	IHLP2020BZER22M01	
	0.33	5.5	5.9	13.0	7.5	541-1214-1-ND	1.96	1.59	1.33	541-1214-2-ND	2,000	898.80/M	IHLP2020BZER33M11	
	0.33	7.6	8.2	12.0	25.0	541-1084-1-ND	1.96	1.59	1.33	541-1084-2-ND	2,000	898.80/M	IHLP2020BZER33M01	
	0.47	7.1	7.7	12.5	8.0	541-1215-1-ND	1.96	1.59	1.33	541-1215-2-ND	2,000	898.80/M	IHLP2020BZER47M11	
	0.47	8.1	8.8	11.5	21.0	541-1085-1-ND	1.96	1.59	1.33	541-1085-2-ND	2,000	898.80/M	IHLP2020BZER47M01	
	0.68	11.2	12.4	10.0	15.0	541-1086-1-ND	1.96	1.59	1.33	541-1086-2-ND	2,000	898.80/M	IHLP2020BZER68M01	
	1.0	16.8	18.1	7.5	7.0	541-1218-1-ND	1.96	1.59	1.33	541-1218-2-ND	2,000	898.80/M	IHLP2020BZER170M11	
	1.0	18.9	20.0	7.0	16.0	541-1087-1-ND	1.96	1.59	1.33	541-1087-2-ND	2,000	898.80/M	IHLP2020BZER170M01	
	2.2	34.9	37.7	5.0	5.5	541-1220-1-ND	1.96	1.59	1.33	541-1220-2-ND	2,000	898.80/M	IHLP2020BZER2R2M11	
	2.2	45.6	50.1	4.2	12.5	541-1088-1-ND	1.96	1.59	1.33	541-1088-2-ND	2,000	898.80/M	IHLP2020BZER2R2M01	
	3.3	53.5	57.8	4.1	4.7	541-1221-1-ND	1.96	1.59	1.33	541-1221-2-ND	2,000	898.80/M	IHLP2020BZER3R3M11	
	3.3	79.2	85.5	3.3	8.5	541-1089-1-ND	1.96	1.59	1.33	541-1089-2-ND	2,000	898.80/M	IHLP2020BZER3R3M01	
	4.7	75.3	81.3	3.2	3.0	541-1222-1-ND	1.96	1.59	1.33	541-1222-2-ND	2,000	898.80/M	IHLP2020BZER4R7M11	
	4.7	108.0	116.6	2.8	5.0	541-1090-1-ND	1.96	1.59	1.33	541-1090-2-ND	2,000	898.80/M	IHLP2020BZER4R7M01	
	5.6	85.2	92.0	3.0	2.2	541-1223-1-ND	1.96	1.59	1.33	541-1223-2-ND	2,000	898.80/M	IHLP2020BZER5R6M11	
	5.6	113.0	122.0	2.5	4.5	541-1091-1-ND	1.96	1.59	1.33	541-1091-2-ND	2,000	898.80/M	IHLP2020BZER5R6M01	
	6.8	139.0	150.0	2.4	4.3	541-1092-1-ND	1.96	1.59	1.33	541-1092-2-ND	2,000	898.80/M	IHLP2020BZER6R8M01	
	10.0	169.3	182.8	2.2	2.0	541-1225-1-ND	1.96	1.59	1.33	541-1225-2-ND	2,000	898.80/M	IHLP2020BZER100M11	
	10.0	184.0	199.0	2.3	4.0	541-1093-1-ND	1.96	1.59	1.33	541-1093-2-ND	2,000	898.80/M	IHLP2020BZER100M01	
	2B	0.10	2.6	2.9	21.0	25.0	541-1227-1-ND	1.89	1.54	1.29	541-1227-2-ND	2,000	870.71/M	IHLP2020CZER110M11
		0.10	3.00	3.16	23.0	27.0	541-1260-1-ND	1.89	1.54	1.29	541-1260-2-ND	2,000	870.71/M	IHLP2020CZER110M01
0.22		3.5	3.9	21.0	14.5	541-1229-1-ND	1.89	1.54	1.29	541-1229-2-ND	2,000	870.71/M	IHLP2020CZER22M11	
0.22		4.30	4.52	15.5	21.0	541-1261-1-ND	1.89	1.54	1.29	541-1261-2-ND	2,000	870.71/M	IHLP2020CZER22M01	
0.33		4.5	5.0	16.5	9.0	541-1230-1-ND	1.89	1.54	1.29	541-1230-2-ND	2,000	870.71/M	IHLP2020CZER33M11	
0.33		5.30	5.56	13.7	19.0	541-1262-1-ND	1.89	1.54	1.29	541-1262-2-ND	2,000	870.71/M	IHLP2020CZER33M01	
0.47		5.0	5.4	14.0	9.0	541-1231-1-ND	1.89	1.54	1.29	541-1231-2-ND	2,000	870.71/M	IHLP2020CZER47M11	
0.47		6.70	7.04	12.2	16.0	541-1263-1-ND	1.89	1.54	1.29	541-1263-2-ND	2,000	870.71/M	IHLP2020CZER47M01	
0.68		8.53	8.96	10.2	13.5	541-1264-1-ND	1.89	1.54	1.29	541-1264-2-ND	2,000	870.71/M	IHLP2020CZER68M01	
0.82		11.3	11.9	9.3	13.0	541-1265-1-ND	1.89	1.54	1.29	541-1265-2-ND	2,000	870.71/M	IHLP2020CZER82M01	
1.0		10.0	11.0	10.0	6.5	541-1234-1-ND	1.89	1.54	1.29	541-1234-2-ND	2,000	870.71/M	IHLP2020CZER170M11	
1.0		13.1	13.7	9.2	12.0	541-1266-1-ND	1.89	1.54	1.29	541-1266-2-ND	2,000	870.71/M	IHLP2020CZER170M01	
1.5		17.1	18.5	7.5	7.0	541-1235-1-ND	1.89	1.54	1.29	541-1235-2-ND	2,000	870.71/M	IHLP2020CZER170M11	
1.5		19.7	20.7	7.2	11.0	541-1267-1-ND	1.89	1.54	1.29	541-1267-2-ND	2,000	870.71/M	IHLP2020CZER170M01	
2.2		22.5	25.0	6.75	5.5	541-1236-1-ND	1.89	1.54	1.29	541-1236-2-ND	2,000	870.71/M	IHLP2020CZER2R2M11	
2.2		27.8	29.2	5.8	10.0	541-1268-1-ND	1.89	1.54	1.29	541-1268-2-ND	2,000	870.71/M	IHLP2020CZER2R2M01	
3.3		31.9	35.0	5.5	7.0	541-1237-1-ND	1.89	1.54	1.29	541-1237-2-ND	2,000	870.71/M	IHLP2020CZER3R3M11	
3.3		52.1	54.7	5.0	8.5	541-1269-1-ND	1.89	1.54	1.29	541-1269-2-ND	2,000	870.71/M	IHLP2020CZER3R3M01	
4.7		54.0	60.0	4.5	5.2	541-1238-1-ND	1.89	1.54	1.29	541-1238-2-ND	2,000	870.71/M	IHLP2020CZER4R7M11	
4.7		73.8	77.5	3.5	8.2	541-1270-1-ND	1.89	1.54	1.29	541-1270-2-ND	2,000	870.71/M	IHLP2020CZER4R7M01	
5.6		63.0	70.6	4.25	3.5	541-1239-1-ND	1.89	1.54	1.29	541-1239-2-ND	2,000	870.71/M	IHLP2020CZER5R6M11	
5.6		103.0	108.0	3.0	4.1	541-1271-1-ND	1.89	1.54	1.29	541-1271-2-ND	2,000	870.71/M	IHLP2020CZER5R6M01	
10.0		122.1	131.9	2.75	2.25	541-1241-1-ND	1.89	1.54	1.29	541-1241-2-ND	2,000	870.71/M	IHLP2020CZER100M11	
10.0		152.0	158.0	2.5	4.0	541-1272-1-ND	1.89	1.54	1.29	541-1272-2-ND	2,000	870.71/M	IHLP2020CZER100M01	
15.0		252.0	265.0	1.9	2.5	541-1273-1-ND	1.89	1.54	1.29	541-1273-2-ND	2,000	870.71/M	IHLP2020CZER150M01	
22.0	250.0	270.0	1.9	1.7	541-1243-1-ND	1.89	1.54	1.29	541-1243-2-ND	2,000	870.71/M	IHLP2020CZER220M11		

† DC current (A) that will cause an approximate ΔT of 40°C. ‡ DC current (A) that will cause Lo to drop approximately 20%
 NOTE: 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.

(Continued)

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