## IHSM-5832



Vishay Dale

## **High Current, Surface Mount Inductors**



IND. AT 1 $kHz (\muH)$ DCR MAX. ( $\Omega$ )RATED CURRENT MAX. (A)INCREMENTAL CURRENT APPROX. (A)1.00.0109.06.21.20.0118.85.61.50.0128.75.01.80.0138.64.42.20.0158.54.02.70.0178.43.73.30.0208.33.43.90.0217.93.14.70.0237.42.85.60.0247.02.66.80.0386.12.38.20.0475.12.010.00.0534.31.812.00.0683.91.715.00.0783.51.618.00.0833.21.522.00.122.81.327.00.142.31.233.00.171.91.139.00.191.81.0347.00.2151.770.9356.00.2361.430.8222.00.142.00.58180.00.8090.750.54220.01.120.690.48270.01.270.640.43330.01.420.590.38180.00.8090.750.54220.01.100.690.48270.01.270.640.43330.01.420.590.38180.0	STANDARD ELECTRICAL SPECIFICATIONS				
1.2 $0.011$ $8.8$ $5.6$ $1.5$ $0.012$ $8.7$ $5.0$ $1.8$ $0.013$ $8.6$ $4.4$ $2.2$ $0.015$ $8.5$ $4.0$ $2.7$ $0.017$ $8.4$ $3.7$ $3.3$ $0.020$ $8.3$ $3.4$ $3.9$ $0.021$ $7.9$ $3.1$ $4.7$ $0.023$ $7.4$ $2.8$ $5.6$ $0.024$ $7.0$ $2.6$ $6.8$ $0.038$ $6.1$ $2.3$ $8.2$ $0.047$ $5.1$ $2.0$ $10.0$ $0.053$ $4.3$ $1.8$ $12.0$ $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$		· · ·		INCREMENTAL CURRENT APPROX. (A)	
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1.8 $0.013$ $8.6$ $4.4$ $2.2$ $0.015$ $8.5$ $4.0$ $2.7$ $0.017$ $8.4$ $3.7$ $3.3$ $0.020$ $8.3$ $3.4$ $3.9$ $0.021$ $7.9$ $3.1$ $4.7$ $0.023$ $7.4$ $2.8$ $5.6$ $0.024$ $7.0$ $2.6$ $6.8$ $0.038$ $6.1$ $2.3$ $8.2$ $0.047$ $5.1$ $2.0$ $10.0$ $0.053$ $4.3$ $1.8$ $12.0$ $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.44$ $0.31$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $56.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ <t< td=""><td>1.2</td><td>0.011</td><td></td><td>5.6</td></t<>	1.2	0.011		5.6	
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3.9 $0.021$ $7.9$ $3.1$ $4.7$ $0.023$ $7.4$ $2.8$ $5.6$ $0.024$ $7.0$ $2.6$ $6.8$ $0.038$ $6.1$ $2.3$ $8.2$ $0.047$ $5.1$ $2.0$ $10.0$ $0.053$ $4.3$ $1.8$ $12.0$ $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $560.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ $0.23$ $1000.0$ $4.20$ $0.37$ $0.21$ $1200.0$ $5.51$	3.3	0.020	8.3	3.4	
5.6 $0.024$ $7.0$ $2.6$ $6.8$ $0.038$ $6.1$ $2.3$ $8.2$ $0.047$ $5.1$ $2.0$ $10.0$ $0.053$ $4.3$ $1.8$ $12.0$ $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $560.0$ $2.42$ $0.46$ $0.28$ $680.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ $0.23$ $1000.0$ $4.20$ $0.37$ $0.21$ $1200.0$ $5.51$ $0.32$ $0.19$ $1500.0$ $7.3$		0.021	7.9	3.1	
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8.2 $0.047$ $5.1$ $2.0$ $10.0$ $0.053$ $4.3$ $1.8$ $12.0$ $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$	5.6	0.024	7.0	2.6	
10.0 $0.053$ $4.3$ $1.8$ $12.0$ $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $560.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ $0.23$ $1000.0$ $4.20$ $0.37$ $0.21$ $1200.0$ $5.51$ $0.32$ $0.19$ $1500.0$ $7.35$ $0.29$ $0.17$ $1800.0$ $8.66$ $0.25$ $0.16$ $2200.0$ $11.29$ $0.20$ $0.13$ $3300.0$ $15.60$ $0.18$ $0.12$ $3900.$	6.8	0.038	6.1	2.3	
12.0 $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $560.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ $0.23$ $1000.0$ $4.20$ $0.37$ $0.21$ $1200.0$ $5.51$ $0.32$ $0.19$ $1500.0$ $7.35$ $0.29$ $0.17$ $1800.0$ $8.66$ $0.25$ $0.16$ $2200.0$ $9.71$ $0.22$ $0.14$ $2700.0$ $11.29$ $0.20$ $0.13$ $3300.0$ $15.60$ $0.18$ $0.12$ $39$	8.2	0.047	5.1	2.0	
12.0 $0.068$ $3.9$ $1.7$ $15.0$ $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $560.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ $0.23$ $1000.0$ $4.20$ $0.37$ $0.21$ $1200.0$ $5.51$ $0.32$ $0.19$ $1500.0$ $7.35$ $0.29$ $0.17$ $1800.0$ $8.66$ $0.25$ $0.16$ $2200.0$ $9.71$ $0.22$ $0.14$ $2700.0$ $11.29$ $0.20$ $0.13$ $3300.0$ $15.60$ $0.18$ $0.12$ $39$	10.0	0.053		1.8	
15.0 $0.078$ $3.5$ $1.6$ $18.0$ $0.083$ $3.2$ $1.5$ $22.0$ $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $560.0$ $2.42$ $0.46$ $0.28$ $680.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ $0.23$ $1000.0$ $4.20$ $0.37$ $0.21$ $1200.0$ $5.51$ $0.32$ $0.19$ $1500.0$ $7.35$ $0.29$ $0.17$ $1800.0$ $8.66$ $0.25$ $0.16$ $2200.0$ $9.71$ $0.22$ $0.14$ $2700.0$ $11.29$ $0.20$ $0.13$ $3300.0$ $15.60$ $0.18$ $0.12$	12.0	0.068	3.9	1.7	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	15.0	0.078	3.5		
22.0 $0.12$ $2.8$ $1.3$ $27.0$ $0.14$ $2.3$ $1.2$ $33.0$ $0.17$ $1.9$ $1.1$ $39.0$ $0.19$ $1.8$ $1.03$ $47.0$ $0.215$ $1.77$ $0.93$ $56.0$ $0.236$ $1.71$ $0.90$ $68.0$ $0.305$ $1.43$ $0.82$ $82.0$ $0.357$ $1.14$ $0.75$ $100.0$ $0.452$ $0.95$ $0.68$ $120.0$ $0.530$ $0.88$ $0.63$ $150.0$ $0.609$ $0.82$ $0.58$ $180.0$ $0.809$ $0.75$ $0.54$ $220.0$ $1.10$ $0.69$ $0.48$ $270.0$ $1.27$ $0.64$ $0.43$ $330.0$ $1.42$ $0.59$ $0.38$ $390.0$ $1.89$ $0.54$ $0.34$ $470.0$ $2.21$ $0.49$ $0.31$ $560.0$ $2.42$ $0.46$ $0.28$ $680.0$ $2.73$ $0.43$ $0.25$ $820.0$ $3.78$ $0.40$ $0.23$ $1000.0$ $4.20$ $0.37$ $0.21$ $1200.0$ $5.51$ $0.32$ $0.19$ $1500.0$ $7.35$ $0.29$ $0.17$ $1800.0$ $8.66$ $0.25$ $0.16$ $2200.0$ $9.71$ $0.22$ $0.14$ $2700.0$ $11.29$ $0.20$ $0.13$ $3300.0$ $15.60$ $0.18$ $0.12$ $3900.0$ $20.74$ $0.16$ $0.11$	18.0	0.083	3.2	1.5	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		0.12	2.8	1.3	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	27.0	0.14	2.3	1.2	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	33.0	0.17	1.9	1.1	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	39.0	0.19	1.8	1.03	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	47.0		1.77	0.93	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	56.0	0.236	1.71	0.90	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	68.0	0.305		0.82	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	82.0	0.357	1.14	0.75	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	100.0	0.452	0.95	0.68	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	120.0	0.530	0.88	0.63	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	150.0				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	180.0	0.809	0.75		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	220.0		0.69		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		1.27			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	330.0				
560.0         2.42         0.46         0.28           680.0         2.73         0.43         0.25           820.0         3.78         0.40         0.23           1000.0         4.20         0.37         0.21           1200.0         5.51         0.32         0.19           1500.0         7.35         0.29         0.17           1800.0         8.66         0.25         0.16           2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11	390.0				
680.0         2.73         0.43         0.25           820.0         3.78         0.40         0.23           1000.0         4.20         0.37         0.21           1200.0         5.51         0.32         0.19           1500.0         7.35         0.29         0.17           1800.0         8.66         0.25         0.16           2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11					
820.0         3.78         0.40         0.23           1000.0         4.20         0.37         0.21           1200.0         5.51         0.32         0.19           1500.0         7.35         0.29         0.17           1800.0         8.66         0.25         0.16           2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11	560.0				
1000.0         4.20         0.37         0.21           1200.0         5.51         0.32         0.19           1500.0         7.35         0.29         0.17           1800.0         8.66         0.25         0.16           2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11	680.0	2.73			
1200.0         5.51         0.32         0.19           1500.0         7.35         0.29         0.17           1800.0         8.66         0.25         0.16           2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11					
1500.0         7.35         0.29         0.17           1800.0         8.66         0.25         0.16           2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11					
1800.0         8.66         0.25         0.16           2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11					
2200.0         9.71         0.22         0.14           2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11					
2700.0         11.29         0.20         0.13           3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11					
3300.0         15.60         0.18         0.12           3900.0         20.74         0.16         0.11					
3900.0 20.74 0.16 0.11					
4700.0 23.10 0.14 0.10					
	4700.0	23.10	0.14	0.10	

#### Note

Contact factory for values above 47 000 µH

#### DESCRIPTION IHSM-5832 ER 3.9 µH ± 15 % e3 MODEL INDUCTANCE VALUE INDUCTANCE TOLERANCE PACKAGE CODE JEDEC LEAD (Pb)-FREE STANDARD **GLOBAL PART NUMBER** S М 5 8 3 2 Е R 3 R 9 L н L PRODUCT FAMILY INDUCTANCE VALUE SIZE PACKAGE TOL CODE

- superior environmental protection and moisture resistance High current unit in surface mount package printed
- High current unit in surface mount package printed COMPLIANT with model, inductance value and date code
- Compatible with infrared or conventional reflow soldering methods
- Pick and place compatible
- Tape and reel packaging for automatic handling
- Compliant to RoHS directive 2002/95/EC

Flame retardant encapsulant (UL 94 V-0)
Completely encapsulated winding

### **APPLICATIONS**

**FEATURES** 

Excellent power line noise filters, filters for switching regulated power supplies, dc-to-dc converters, SCR and Triac controls and RFI suppression.

#### **ELECTRICAL SPECIFICATIONS**

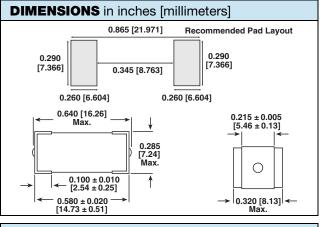
Inductance: Measured at 1 V with no DC current Inductance Tolerance:  $\pm$  15 %

**Incremental Current:** The typical current at which the inductance will be decreased by 5 % from its initial zero DC value

**Operating Temperature:** - 55 °C to + 125 °C (no load); - 55 °C to + 85 °C (at full rated current)

#### **MECHANICAL SPECIFICATIONS**

**Core:** High resistivity ferrite core **Encapsulant:** Epoxy **Terminals:** 100 % Sn over Ni



## PART MARKING

Model
 Inductance value

- Date code



Vishay

# Disclaimer

All product specifications and data are subject to change without notice.

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