

Features:

- Miniature surface mount design
- Ferrite core yields high power and high saturation with very low DC resistance
- Operating temperature range of -40°C to +85°C
- Materials meet UL94-V0 compliance
- Available on tape and reel for auto surface mounting
- Contact factory for inductance values outside those listed in the datasheet
- Find environmental information and packaging specifications in related supplemental documents



Applications:

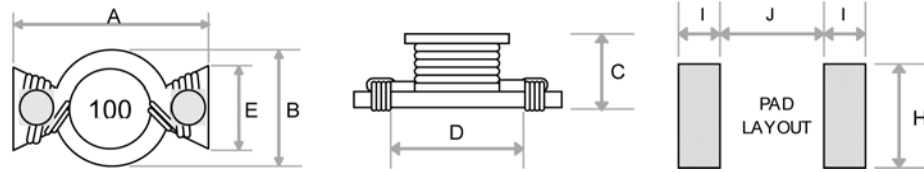
- Notebook computers
- LCD televisions
- DC/DC converters
- Handheld communications
- Power supplies

Inductance and Current Ranges		
Type	Inductance (μH)	Current Ranges (A)
PDH 1608	0.47 - 22	7.7 ~ 0.7
PDH 1813	0.56 ~ 100	7.7 ~ 0.53
PDH 3316	0.47 - 100	11.4 ~ 0.95
PDH 4920	0.47 - 100	25.1 ~ 1.8
PDH 5022	0.78 ~ 1000	30 ~ 0.4

Electrical specifications at 25°C

How to Order

1	2	3	4	5	6	7	8	9	10	11	12
P	D	H	1	8	1	3	M	T	1	0	1
Product Series			Code	Dimensions (mm)		Tolerance		Packaging		Inductance	
PDH	SMD Power Inductor		1608	7.5x5.2x3.2		Code	Tol	Code	Description	Code	Inductance
			1813	8.89x6.4x5.0		M	±20%	T	Tape and Reel	1R1	1.1 μH
			3316	13.2x9.9x6.35		P	+40/-20%			470	47 μH
			4920	19.4x13.3x6.8						101	100 μH
			5022	22.35x16.26x8.0							



Mechanical Specifications

Type / Code	A Max.	B Max.	C Max.	D	E	H	I	J	Units
PDH 1608	0.295 7.50	0.205 5.20	0.126 3.20	0.181 4.60	0.098 2.50	0.157 4.00	0.079 2.00	0.157 4.00	inches mm
PDH 1813	0.350 8.89	0.252 6.40	0.197 5.00	0.230 5.84	0.102 2.60	0.160 4.06	0.079 2.00	0.200 5.08	inches mm
PDH 3316	0.520 13.20	0.390 9.90	0.250 6.35	0.374 9.50	0.177 4.50	0.256 6.50	0.091 2.30	0.354 9.00	inches mm
PDH 4920	0.764 19.40	0.524 13.30	0.268 6.80	0.500 12.70	0.260 6.60	0.315 8.00	0.150 3.80	0.461 11.70	inches mm
PDH 5022	0.880 22.35	0.640 16.26	0.315 8.00	0.630 16.00	0.315 8.00	0.340 8.64	0.169 4.30	0.565 14.35	inches mm

Electrical Specifications

Type	L (μ H)	Tolerance			Test Condition	DCR (Ω) max.					IDC (A) max.				
		1608	1813 5022	3316 4920		1608	1813	3316	4920	5022	1608	1813	3316	4920	5022
R47	0.47	P	-	P	100KHz, 0.1V	0.025	-	0.005	0.003	-	7.7	-	11.4	25.1	-
R56	0.56	-	M	-	100KHz, 0.1V	-	0.010	-	-	-	-	7.7	-	-	-
R78	0.78	-	M	-	100KHz, 0.1V	-	-	-	-	0.003	-	-	-	-	30
1R0	1.0	M	-	P	100KHz, 0.1V	0.050	-	0.006	0.004	-	2.9	-	9.9	15.3	-
1R5	1.5	M	M	P	100KHz, 0.1V	0.050	-	0.008	0.006	0.004	2.6	-	7.9	12.0	25
2R2	2.2	M	M	M	100KHz, 0.1V	0.070	0.035	0.011	0.008	0.006	2.3	3.5	6.1	10.2	20
3R3	3.3	M	M	M	100KHz, 0.1V	0.080	0.040	0.014	0.009	0.009	2.0	3.0	5.1	9.3	17
3R9	3.9	-	M	-	100KHz, 0.1V	-	-	-	-	0.010	-	-	-	-	15
4R7	4.7	M	M	M	100KHz, 0.1V	0.090	0.054	0.018	0.012	0.014	1.5	2.6	4.2	7.7	13
6R0	6.0	-	M	-	100KHz, 0.1V	-	-	-	-	0.017	-	-	-	-	12
6R8	6.8	M	M	M	100KHz, 0.1V	0.130	0.080	0.027	0.019	-	1.2	2.2	3.6	6.2	-
7R8	7.8	-	M	-	100KHz, 0.1V	-	-	-	-	0.018	-	-	-	-	11
100	10	M	M	M	100KHz, 0.1V	0.160	0.111	0.038	0.027	0.026	1.1	1.9	3.3	5.2	10
150	15	M	M	M	100KHz, 0.1V	0.230	0.170	0.045	0.032	0.032	0.9	1.5	2.4	4.3	8
220	22	M	M	M	100KHz, 0.1V	0.370	0.250	0.070	0.050	0.043	0.7	1.2	2.0	3.7	7
330	33	-	M	M	100KHz, 0.1V	-	0.350	0.100	0.069	0.066	-	0.99	1.7	3.0	6
470	47	-	M	M	100KHz, 0.1V	-	0.470	0.150	0.109	0.096	-	0.87	1.4	2.4	5
680	68	-	M	M	100KHz, 0.1V	-	0.730	0.220	0.156	0.115	-	0.68	1.2	2.0	4
101	100	-	M	M	100KHz, 0.1V	-	1.110	0.280	0.206	0.165	-	0.53	0.95	1.8	3
221	220	-	M	-	100KHz, 0.1V	-	-	-	-	0.396	-	-	-	-	4
331	330	-	M	-	100KHz, 0.1V	-	-	-	-	0.588	-	-	-	-	1
471	470	-	M	-	100KHz, 0.1V	-	-	-	-	0.950	-	-	-	-	0.8
681	680	-	M	-	100KHz, 0.1V	-	-	-	-	1.200	-	-	-	-	0.5
102	1000	-	M	-	100KHz, 0.1V	-	-	-	-	1.600	-	-	-	-	0.4