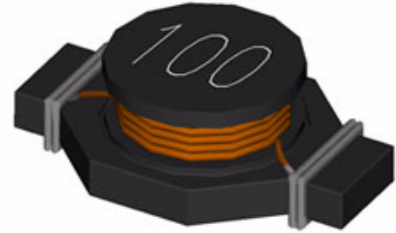


Features

- Miniature surface mount design
- Ferrite core yields high power and high saturation with very low DC resistance
- Operating Temperature Range of -40°C to +125°C
- Materials meet UL94-V0 compliance
- Available on tape and reel for auto surface mounting
- For inductance values outside those listed in the datasheet contact factory
- Find environmental information and packaging specs in related supplemental documents



Applications

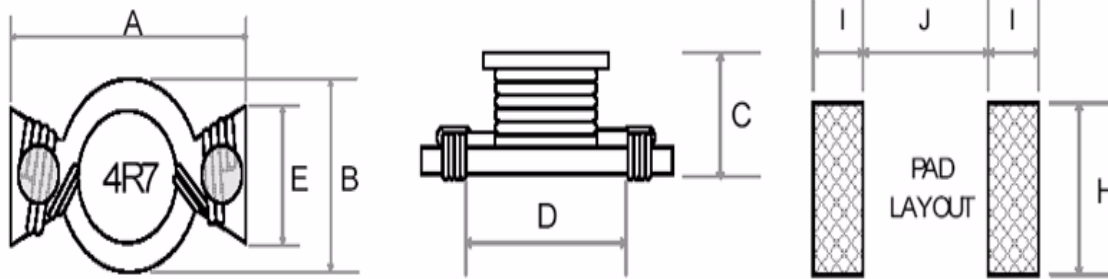
- Notebook Computers
- LCD televisions
- DC/DC converters
- Handheld communications
- Power Supplies

Inductance and Current ranges

- | | | |
|-----------|--------------------|--------------|
| • PDH1608 | 0.47 ~ 22 μ H | 6.0 ~ 0.7A |
| • PDH1813 | 0.47 ~ 100 μ H | 6.0 ~ 0.47A |
| • PDH3316 | 0.47 ~ 100 μ H | 10.6 ~ 0.95A |
| • PDH4920 | 0.47 ~ 100 μ H | 16.0 ~ 1.4A |
| • PDH5022 | 0.47 ~ 100 μ H | 19.2 ~ 2.0A |

How to Order

PDH		1813	M	T	101		
SEI Type		Dimensions	Tolerance	Packaging	Inductance		
Type	Description	Code	Dimensions(mm)	Code	Tolerance	Code	Inductance
PDH	SMD Power Inductor	1608	7.5 x 5.2	M	$\pm 20\%$	1R1	1.1 μ H
		1813	9.0 x 6.1	P	+40/-20%	470	47 μ H
		3316	13.2 x 9.9			101	100 μ H
		4920	19.4 x 13.3				
		5022	22.2 x 15.0				



Mechanical Specifications

Type/ Code	A Max.	B Max.	C Max.	D	E	H	I	J	Units
PDH1608	0.295 7.5	0.205 5.2	0.126 3.2	0.181 4.6	0.098 2.5	0.157 4.0	0.079 2.0	0.157 4.0	inches mm
PDH1813	0.354 9.0	0.240 6.1	0.197 5.0	0.228 5.8	0.118 3.0	0.197 5.0	0.079 2.0	0.197 5.0	inches mm
PDH3316	0.520 13.2	0.390 9.9	0.236 6.0	0.374 9.5	0.177 4.5	0.256 6.5	0.091 2.3	0.354 9.0	inches mm
PDH4920	0.764 19.4	0.524 13.3	0.268 6.8	0.500 12.7	0.260 6.6	0.315 8.0	0.150 3.8	0.461 11.7	inches mm
PDH5022	0.874 22.2	0.591 15.0	0.307 7.8	0.575 14.6	0.303 7.7	0.394 10.0	0.169 4.3	0.532 13.5	inches mm

Electrical Characteristics - PDH1608

Part Number	L (μ H)	Tolerance (%)	DCR ($m\Omega$) Max	I rms (A) Max	I sat (A) Max
PDH1608PTR47	0.47	+40/-20	25	6.0	7.7
PDH1608MT1R0	1.0	20	50	2.9	2.9
PDH1608MT1R5	1.5	20	50	2.8	2.6
PDH1608MT2R2	2.2	20	70	2.4	2.3
PDH1608MT3R3	3.3	20	80	2.0	2.0
PDH1608MT4R7	4.7	20	90	1.5	1.5
PDH1608MT6R8	6.8	20	130	1.4	1.2
PDH1608MT100	10	20	160	1.1	1.1
PDH1608MT150	15	20	230	1.0	0.9
PDH1608MT220	22	20	370	0.8	0.7

Electrical Characteristics - PDH1813

Part Number	L (μ H)	Tolerance (%)	DCR ($m\Omega$) Max	I rms (A) Max	I sat (A) Max
PDH1813PTR47	0.47	+40/-20	10	6.0	7.7
PDH1813PT1R0	1.0	+40/-20	18	4.4	5.3
PDH1813PT1R5	1.5	+40/-20	20	4.2	4.5
PDH1813MT2R2	2.2	20	37	3.1	3.5
PDH1813MT3R3	3.3	20	43	2.9	3.0
PDH1813MT4R7	4.7	20	55	2.2	2.6
PDH1813MT6R8	6.8	20	90	1.7	2.2
PDH1813MT100	10	20	111	1.5	1.9

Electrical Characteristics - PDH1813

Part Number	L (µH)	Tolerance (%)	DCR (mΩ) Max	I rms (A) Max	I sat (A) Max
PDH1813MT150	15	20	175	1.2	1.5
PDH1813MT220	22	20	255	1.0	1.2
PDH1813MT330	33	20	367	0.82	0.99
PDH1813MT470	47	20	474	0.72	0.87
PDH1813MT680	68	20	750	0.58	0.67
PDH1813MT101	100	20	1110	0.47	0.53

Electrical Characteristics - PDH3316

Part Number	L (µH)	Tolerance (%)	DCR (mΩ) Max	I rms (A) Max	I sat (A) Max
PDH3316PTR47	0.47	+40/-20	5	10.6	11.4
PDH3316PT1R0	1.0	+40/-20	6	9.3	9.9
PDH3316PT1R5	1.5	+40/-20	8	8.3	7.9
PDH3316MT2R2	2.2	20	11	7.2	6.1
PDH3316MT3R3	3.3	20	14	6.5	5.1
PDH3316MT4R7	4.7	20	18	5.5	4.2
PDH3316MT6R8	6.8	20	27	5.0	3.6
PDH3316MT100	10	20	38	4.3	3.3
PDH3316MT150	15	20	45	3.5	2.4
PDH3316MT220	22	20	70	2.8	2.0
PDH3316MT330	33	20	100	2.1	1.7
PDH3316MT470	47	20	150	1.7	1.4
PDH3316MT680	68	20	220	1.5	1.2
PDH3316MT101	100	20	280	1.2	0.95

Electrical Characteristics - PDH4920

Part Number	L (µH)	Tolerance (%)	DCR (mΩ) Max	I rms (A) Max	I sat (A) Max
PDH4920PTR47	0.47	+40/-20	3	16.0	25.1
PDH4920PT1R0	1.0	+40/-20	4	12.5	15.3
PDH4920PT1R5	1.5	+40/-20	6	10.0	12.0
PDH4920MT2R2	2.2	20	8	9.2	10.2
PDH4920MT3R3	3.3	20	9	8.0	9.3
PDH4920MT4R7	4.7	20	12	6.5	7.7
PDH4920MT6R8	6.8	20	19	5.8	6.2
PDH4920MT100	10	20	27	4.3	5.2
PDH4920MT150	15	20	32	3.9	4.3
PDH4920MT220	22	20	50	3.1	3.7
PDH4920MT330	33	20	69	2.4	3.0
PDH4920MT470	47	20	109	1.9	2.4
PDH4920MT680	68	20	156	1.6	2.0
PDH4920MT101	100	20	206	1.4	1.8

Electrical Characteristics - PDH5022

Part Number	L (μ H)	Tolerance (%)	DCR (m Ω) Max	I rms (A) Max	I sat (A) Max
PDH5022PTR47	0.47	+40/-20	2	19.2	51.7
PDH5022PT1R0	1.0	+40/-20	3	17.3	37.8
PDH5022PT1R5	1.5	+40/-20	4	13.4	28.9
PDH5022MT2R2	2.2	20	5	12.0	23.7
PDH5022MT3R3	3.3	20	6	11.0	20.2
PDH5022MT4R7	4.7	20	10	8.6	15.6
PDH5022MT6R8	6.8	20	15	8.3	14.1
PDH5022MT100	10	20	20	6.8	11.5
PDH5022MT150	15	20	30	5.5	9.1
PDH5022MT220	22	20	40	4.5	7.6
PDH5022MT330	33	20	60	3.7	6.1
PDH5022MT470	47	20	74	3.1	5.2
PDH5022MT680	68	20	120	2.4	4.3
PDH5022MT101	100	20	170	2.0	3.6