

Features

- Provides high power and high saturation
- PD1608 uses ceramic base with gold-plating, All others use LCP plastic base
- Operating Temperature Range of -40°C to +125°C
- Materials meet UL94-V0 compliance
- For Inductance values outside those listed in the datasheet contact factory
- Find Environmental information and Packaging specs in related supplemental documents



Applications

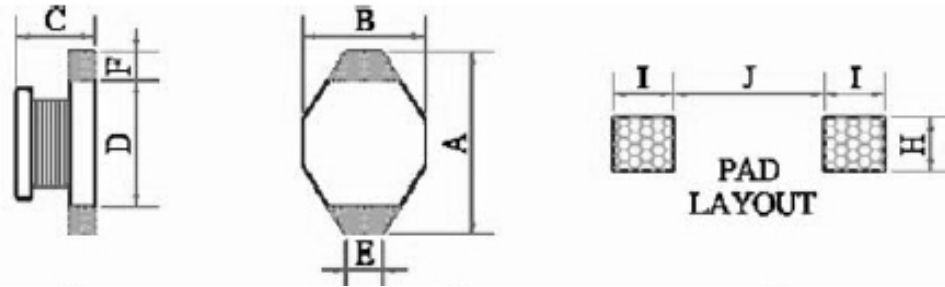
- Portable telephones
- DC/DC converters
- LCD televisions
- Personal computers
- Flash memory programmers
- Power Supplies

Inductance and Current ranges

• PD1608	1.0 ~ 1000 μ H	2.9 ~ 0.07A
• PD1813	0.18 ~ 100 μ H	10 ~ 0.47A
• PD3308	10 ~ 1000 μ H	2.0 ~ 0.05A
• PD3316	1.0 ~ 1000 μ H	6.8 ~ 0.30A
• PD3340	10 ~ 1000 μ H	3.5 ~ 0.10A
• PD5022	1.0 ~ 1000 μ H	8.6 ~ 0.56A

How to Order

PD		1813		M	T	101	
SEI Type		Dimensions		Tolerance	Packaging	Inductance	
Type	Description	Code	Dimensions(mm)	Code	Tolerance	Code	Inductance
PD	SMD Power Inductor	1608	6.6 x 4.45 x 2.92	M	\pm 20%	1R1	1.1 μ H
		1813	8.89 x 6.1 x 4.7			470	47 μ H
		3308	12.95 x 9.4 x 3.5			101	100 μ H
		3316	12.95 x 9.4 x 5.2			102	1000 μ H
		3340	12.95 x 9.4 x 11.43				
		5022	18.54 x 15.24 x 7.11				



Mechanical Specifications - Standard

Type/ Code	A Max.	B Max.	C Max.	D	E	F	H	I	J	Units
PD1608	0.260 6.60	0.175 4.45	0.115 2.92	0.170 4.32	0.050 1.27	0.040 1.02	0.140 3.56	0.055 1.40	0.160 4.06	inches mm
PD1813	0.350 8.89	0.240 6.10	0.185 4.70	0.197 5.00	0.100 2.54	0.100 2.54	0.110 2.79	0.115 2.92	0.197 5.00	inches mm
PD3308	0.510 12.95	0.370 9.40	0.138 3.50	0.300 7.62	0.100 2.54	0.100 2.54	0.110 2.79	0.115 2.92	0.290 7.37	inches mm
PD3316	0.510 12.95	0.370 9.40	0.205 5.21	0.300 7.62	0.100 2.54	0.100 2.54	0.110 2.79	0.115 2.92	0.290 7.37	inches mm
PD3340	0.510 12.95	0.370 9.40	0.450 11.43	0.300 7.62	0.100 2.54	0.100 2.54	0.110 2.79	0.115 2.92	0.290 7.37	inches mm
PD5022	0.742 18.84	0.600 15.24	0.280 7.11	0.500 12.7	0.100 2.54	0.100 2.54	0.110 2.79	0.115 2.92	0.490 12.45	inches mm

Electrical Characteristics - PD1608

Part Number	L (μ H) @ 100KHz	Tolerance (%)	SRF (MHz)	DCR (Ω) Max	I sat (A)	I rms (A)
PD1608MT1R0	1.0	20	130	0.05	2.90	2.90
PD1608MT1R5	1.5	20	115	0.05	2.60	2.80
PD1608MT2R2	2.2	20	90	0.07	2.30	2.40
PD1608MT3R3	3.3	20	70	0.08	2.00	2.00
PD1608MT4R7	4.7	20	50	0.09	1.50	1.50
PD1608MT6R8	6.8	20	45	0.13	1.20	1.40
PD1608MT100	10	20	35	0.16	1.10	1.10
PD1608MT150	15	20	30	0.23	0.90	1.20
PD1608MT220	22	20	20	0.37	0.70	0.80
PD1608MT330	33	20	15	0.51	0.58	0.60
PD1608MT470	47	20	14	0.64	0.50	0.50
PD1608MT680	68	20	11	0.86	0.40	0.40
PD1608MT101	100	20	9.0	1.27	0.31	0.30
PD1608MT151	150	20	6.0	2.00	0.27	0.25
PD1608MT221	220	20	5.5	3.11	0.22	0.20
PD1608MT331	330	20	5.0	3.80	0.18	0.16
PD1608MT471	470	20	4.0	6.20	0.16	0.15
PD1608MT681	680	20	3.0	9.20	0.14	0.12
PD1608MT102	1000	20	2.0	13.80	0.10	0.07

Electrical Characteristics - PD1813

Part Number	L (μ H) @ 100KHz	Tolerance (%)	SRF (MHz)	DCR (Ω) Max	I sat (A)	I rms (A)
PD1813MTR18	0.18	20	800	0.003	14.0	10.0
PD1813MTR33	0.33	20	600	0.004	10.0	7.0
PD1813MTR56	0.56	20	400	0.010	7.7	6.0
PD1813MT1R2	1.2	20	140	0.017	5.3	4.4
PD1813MT2R2	2.2	20	100	0.035	3.5	3.1
PD1813MT3R3	3.3	20	80	0.040	3.0	2.7
PD1813MT4R7	4.7	20	50	0.054	2.6	2.2
PD1813MT6R8	6.8	20	45	0.080	2.2	1.8
PD1813MT100	10	20	40	0.111	1.9	1.5
PD1813MT150	15	20	30	0.170	1.5	1.2
PD1813MT220	22	20	25	0.250	1.2	1.0
PD1813MT330	33	20	20	0.350	0.99	0.82
PD1813MT470	47	20	15	0.470	0.87	0.72
PD1813MT680	68	20	10	0.730	0.67	0.56
PD1813MT101	100	20	8	1.110	0.53	0.47

Electrical Characteristics - PD3308

Part Number	L (μ H) @ 100KHz	Tolerance (%)	SRF (MHz)	DCR (Ω) Max	I sat (A)	I rms (A)
PD3308MT100	10	20	35	0.11	2.4	2.00
PD3308MT150	15	20	33	0.15	2.0	1.50
PD3308MT220	22	20	25	0.23	1.6	1.30
PD3308MT330	33	20	19	0.30	1.4	1.10
PD3308MT470	47	20	14	0.39	1.0	0.80
PD3308MT680	68	20	12	0.66	0.9	0.70
PD3308MT101	100	20	10	0.84	0.7	0.60
PD3308MT151	150	20	8.0	1.20	0.6	0.50
PD3308MT221	220	20	6.0	1.90	0.5	0.40
PD3308MT331	330	20	5.0	2.70	0.4	0.30
PD3308MT471	470	20	4.0	4.00	0.3	0.20
PD3308MT681	680	20	3.0	5.30	0.2	0.10
PD3308MT102	1000	20	2.5	8.40	0.1	0.05

Electrical Characteristics - PD3316

Part Number	L (μ H) @ 100KHz	Tolerance (%)	SRF (MHz)	DCR (Ω) Max	I sat (A)	I rms (A)
PD3316MT1R0	1.0	20	100	0.009	9.0	6.8
PD3316MT1R5	1.5	20	90	0.010	8.0	6.4
PD3316MT2R2	2.2	20	80	0.012	7.0	6.1
PD3316MT3R3	3.3	20	65	0.015	6.4	5.4
PD3316MT4R7	4.7	20	45	0.018	5.4	4.8
PD3316MT6R8	6.8	20	38	0.027	4.6	4.4
PD3316MT100	10	20	30	0.038	3.8	3.9
PD3316MT150	15	20	27	0.046	3.0	3.1
PD3316MT220	22	20	19	0.085	2.6	2.7
PD3316MT330	33	20	15	0.100	2.0	2.1
PD3316MT470	47	20	12	0.140	1.6	1.8
PD3316MT680	68	20	10	0.200	1.4	1.5
PD3316MT101	100	20	9.0	0.280	1.2	1.3
PD3316MT151	150	20	6.0	0.400	1.0	1.0
PD3316MT221	220	20	5.0	0.610	0.8	0.8
PD3316MT331	330	20	4.5	1.020	0.6	0.6
PD3316MT471	470	20	3.5	1.270	0.5	0.5
PD3316MT681	680	20	2.5	2.020	0.4	0.4
PD3316MT102	1000	20	2.0	3.000	0.3	0.3

Electrical Characteristics - PD3340

Part Number	L (μ H) @ 100KHz	Tolerance (%)	SRF (MHz)	DCR (Ω) Max	I sat (A)	I rms (A)
PD3340MT100	10	20	22	0.04	8.0	3.5
PD3340MT150	15	20	18	0.05	7.0	3.0
PD3340MT220	22	20	11	0.07	5.5	2.5
PD3340MT330	33	20	9.0	0.08	4.0	2.0
PD3340MT470	47	20	8.0	0.11	3.8	1.6
PD3340MT680	68	20	7.0	0.17	3.0	1.2
PD3340MT101	100	20	5.0	0.22	2.5	1.2
PD3340MT151	150	20	4.0	0.34	2.0	0.9
PD3340MT221	220	20	3.5	0.44	1.6	0.7
PD3340MT331	330	20	2.5	0.70	1.2	0.6
PD3340MT471	470	20	2.0	0.95	1.0	0.3
PD3340MT681	680	20	2.0	1.20	1.0	0.2
PD3340MT102	1000	20	1.5	2.00	0.8	0.1

Electrical Characteristics - PD5022

Part Number	L (μ H) @ 100KHz	Tolerance (%)	SRF (MHz)	DCR (Ω) Max	I sat (A)	I rms (A)
PD5022MT1R0	1.0	20	80	0.009	20	8.60
PD5022MT2R2	2.2	20	80	0.014	16	7.10
PD5022MT3R3	3.3	20	60	0.018	14	6.20
PD5022MT5R6	5.6	20	40	0.020	12	5.30
PD5022MT100	10	20	30	0.031	10	4.30
PD5022MT150	15	20	22	0.036	8.0	4.00
PD5022MT220	22	20	20	0.047	7.0	3.50
PD5022MT330	33	20	15	0.066	5.5	3.00
PD5022MT470	47	20	9.0	0.086	4.5	2.60
PD5022MT680	68	20	8.0	0.130	3.5	2.30
PD5022MT101	100	20	7.0	0.190	3.0	1.80
PD5022MT151	150	20	6.0	0.250	2.6	1.50
PD5022MT221	220	20	5.0	0.380	2.4	1.20
PD5022MT331	330	20	4.0	0.560	1.9	1.00
PD5022MT471	470	20	3.0	0.850	1.4	0.82
PD5022MT681	680	20	2.5	1.100	1.2	0.72
PD5022MT102	1000	20	2.0	1.800	1.0	0.56