

PB Series SMD Power Inductors



Features:

- High saturation current
- PBS type with magnetic shielded
- SMT type, suitable for solder reflow.

Application:

- Portable communication equipment, Notebook Computer
- LCD televisions, Power supply for VTRs
- DC/DC converters etc.

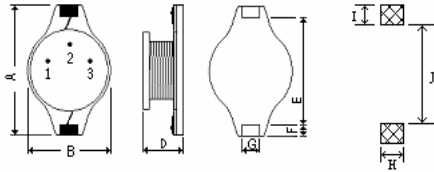
Part Number System

PBO	1608	—	150	M	T
①	②		③	④	⑤

① Code	② Dimensions (L×W×T) (mm)		③ (μH) Inductance		④ Tolerance		⑤ Packaging Style	
PBO PBS	1608	6.60×4.45×2.92	150	15	K	±10%	T	Tape&Reel
	3316	12.95×9.40×5.2	101	100	M	±20%	B	Bulk
	5022	18.54×15.24×7.11	102	1000				

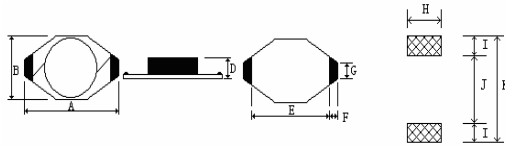
Dimensions

(Unit): mm



Part	A	B	D	E	F	G	H	I	J
3316	12.95	9.40	5.21	7.62	2.54	2.52	2.79	2.92	7.37
5022	18.54	15.24	7.11	12.70	2.54	2.54	2.79	2.92	12.45

(Unit): mm



Part	A	B	D	E	F	G	H	I	J
1608	6.60	4.45	2.92	4.32	1.02	1.27	3.56	1.40	4.06

Electrical Characteristics

PBO1608

Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)	Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)
PBO1608-1R0MT	1.0	±20%	100kHz	0.05	130	2.90	2.90	PBO1608-470MT	47	±20%	100kHz	0.64	14	0.50	0.50
PBO1608-1R5MT	1.5	±20%	100kHz	0.05	115	2.60	2.80	PBO1608-680MT	68	±20%	100kHz	0.86	11	0.40	0.40
PBO1608-2R2MT	2.2	±20%	100kHz	0.07	90	2.30	2.40	PBO1608-101MT	100	±20%	100kHz	1.27	9	0.31	0.30
PBO1608-3R3MT	3.3	±20%	100kHz	0.08	70	2.00	2.00	PBO1608-151MT	150	±20%	100kHz	2.00	6	0.27	0.25
PBO1608-4R7MT	4.7	±20%	100kHz	0.09	50	1.50	1.50	PBO1608-221MT	220	±20%	100kHz	3.11	5.5	0.22	0.20
PBO1608-6R8MT	6.8	±20%	100kHz	0.13	45	1.20	1.14	PBO1608-331MT	330	±20%	100kHz	3.80	5	0.18	0.16
PBO1608-100MT	10	±20%	100kHz	0.16	35	1.10	1.10	PBO1608-471MT	470	±20%	100kHz	5.06	4	0.16	0.15
PBO1608-150MT	15	±20%	100kHz	0.23	30	0.90	1.20	PBO1608-681MT	680	±20%	100kHz	9.20	3	0.14	0.12
PBO1608-220MT	22	±20%	100kHz	0.37	20	0.70	0.80	PBO1608-102MT	1000	±20%	100kHz	13.8	2	0.10	0.07
PBO1608-330MT	33	±20%	100kHz	0.51	15	0.58	0.60								

PBO3316

Part Number	L (μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)	Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)
PBO3316-1R0MT	1.0	±20%	100kHz	0.009	100	9.0	6.8	PBO3316-470MT	47	±20%	100kHz	0.140	12	1.6	1.8
PBO3316-1R5MT	1.5	±20%	100kHz	0.010	90	8.0	6.4	PBO3316-680MT	68	±20%	100kHz	0.200	10	1.4	1.5
PBO3316-2R2MT	2.2	±20%	100kHz	0.012	80	7.0	6.1	PBO3316-101MT	100	±20%	100kHz	0.280	9	1.2	1.3
PBO3316-3R3MT	3.3	±20%	100kHz	0.015	65	6.4	5.4	PBO3316-151MT	150	±20%	100kHz	0.400	6	1.0	1.0
PBO3316-4R7MT	4.7	±20%	100kHz	0.018	45	5.4	4.8	PBO3316-221MT	220	±20%	100kHz	0.610	5	0.8	0.8
PBO3316-6R8MT	6.8	±20%	100kHz	0.027	38	4.6	4.4	PBO3316-331MT	330	±20%	100kHz	1.020	4.5	0.6	0.6
PBO3316-100MT	10	±20%	100kHz	0.038	30	3.8	3.9	PBO3316-471MT	470	±20%	100kHz	1.270	3.5	0.5	0.5
PBO3316-150MT	15	±20%	100kHz	0.046	27	3.0	3.1	PBO3316-681MT	680	±20%	100kHz	2.020	2.5	0.4	0.4
PBO3316-220MT	22	±20%	100kHz	0.085	19	2.6	2.7	PBO3316-102MT	1000	±20%	100kHz	3.000	2.0	0.3	0.3
PBO3316-330MT	33	±20%	100kHz	0.100	15	2.0	2.1								

PBO5022

Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)	Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)
PBO5022-1R0MT	1.0	±20%	100kHz	0.009	80	2.0	8.6	PBO5022-680MT	68	±20%	100kHz	0.130	8	3.5	2.3
PBO5022-2R2MT	2.2	±20%	100kHz	0.014	80	16	7.1	PBO5022-101MT	100	±20%	100kHz	0.190	7	3.0	1.8
PBO5022-3R3MT	3.3	±20%	100kHz	0.018	60	14	6.2	PBO5022-151MT	150	±20%	100kHz	0.250	6	2.6	1.5
PBO5022-5R6MT	5.6	±20%	100kHz	0.020	40	12	5.3	PBO5022-221MT	220	±20%	100kHz	0.380	5	2.4	1.2
PBO5022-100MT	10	±20%	100kHz	0.031	30	10	4.3	PBO5022-331MT	330	±20%	100kHz	0.560	4	1.9	1.0
PBO5022-150MT	15	±20%	100kHz	0.036	22	8.0	4.0	PBO5022-471MT	470	±20%	100kHz	0.850	3	1.4	8.2
PBO5022-220MT	22	±20%	100kHz	0.047	20	7.0	3.5	PBO5022-681MT	680	±20%	100kHz	1.100	2.5	1.2	0.72
PBO5022-330MT	33	±20%	100kHz	0.066	15	5.5	3.0	PBO5022-102MT	1000	±20%	100kHz	1.800	2	1.0	0.56
PBO5022-470MT	47	±20%	100kHz	0.086	9	4.5	2.6								

Test at 100KHz, 0.1Vrms. Inductance drop 10% typ.at rated Isat ΔT=40°C rise typ. at Irms.

PBS1608

Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)
PBS1608-1R0MT	1.0	±20%	100kHz	0.040	250	3.0	PBS1608-151MT	150	±20%	100kHz	0.590	9	0.26
PBS1608-1R5MT	1.5	±20%	100kHz	0.045	125	2.8	PBS1608-221MT	220	±20%	100kHz	0.770	6	0.22
PBS1608-2R2MT	2.2	±20%	100kHz	0.050	120	1.8	PBS1608-331MT	330	±20%	100kHz	1.4	5	0.20
PBS1608-3R3MT	3.3	±20%	100kHz	0.055	120	1.6	PBS1608-471MT	470	±20%	100kHz	1.8	4	0.19
PBS1608-4R7MT	4.7	±20%	100kHz	0.060	105	1.4	PBS1608-681MT	680	±20%	100kHz	2.2	3	0.18
PBS1608-6R8MT	6.8	±20%	100kHz	0.065	50	1.2	PBS1608-102MT	1000	±20%	100kHz	3.4	2	0.15
PBS1608-100MT	10	±20%	100kHz	0.075	38	1.0	PBS1608-152MT	1500	±20%	100kHz	4.2	2	0.12
PBS1608-150MT	15	±20%	100kHz	0.090	33	0.80	PBS1608-222MT	2200	±20%	100kHz	8.5	2	0.10
PBS1608-220MT	22	±20%	100kHz	0.110	25	0.70	PBS1608-332MT	3300	±20%	100kHz	11.0	1	0.08
PBS1608-330MT	33	±20%	100kHz	0.190	20	0.60	PBS1608-472MT	4700	±20%	100kHz	13.9	1	0.06
PBS1608-470MT	47	±20%	100kHz	0.230	20	0.50	PBS1608-682MT	6800	±20%	100kHz	25.0	1	0.04
PBS1608-680MT	68	±20%	100kHz	0.290	15	0.40	PBS1608-103MT	10000	±20%	100kHz	32.8	0.8	0.02
PBS1608-101MT	100	±20%	100kHz	0.480	10	0.30							

PBS3316

Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)	Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)
PBS3316-1R0MT	1.0	±20%	100kHz	0.021	140	5.6	5.0	PBS3316-100MT	10.0	±20%	100kHz	0.101	35	2.4	2.0
PBS3316-1R5MT	1.5	±20%	100kHz	0.022	120	5.2	4.5	PBS3316-150MT	15.0	±20%	100kHz	0.150	25	2.0	1.5
PBS3316-2R2MT	2.2	±20%	100kHz	0.032	80	5.0	3.8	PBS3316-220MT	22.0	±20%	100kHz	0.207	19	1.6	1.3
PBS3316-3R3MT	3.3	±20%	100kHz	0.039	70	3.9	3.3	PBS3316-330MT	33.0	±20%	100kHz	0.334	15	1.4	1.1
PBS3316-4R7MT	4.7	±20%	100kHz	0.054	40	3.2	2.7	PBS3316-470MT	47.0	±20%	100kHz	0.472	13	1.0	0.8
PBS3316-6R8MT	6.8	±20%	100kHz	0.075	38	2.8	2.2								

PBS5022

Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)	Part Number	L(μH)	Tolerance	Test Freq.	Max DCR(Ω)	SRF (MHz)	Isat (A)	Irms (A)
PBS5022-100MT	10	±20%	100kHz	0.040	30	8.0	3.9	PBS5022-151MT	150	±20%	100kHz	0.293	6	2.1	1.3
PBS5022-150MT	15	±20%	100kHz	0.048	20	7.0	3.4	PBS5022-221MT	220	±20%	100kHz	0.470	5	1.9	1.1
PBS5022-220MT	22	±20%	100kHz	0.059	18	6.0	3.1	PBS5022-331MT	330	±20%	100kHz	0.780	4	1.1	0.86
PBS5022-330MT	33	±20%	100kHz	0.075	14	5.0	2.8	PBS5022-471MT	470	±20%	100kHz	1.080	3	1.1	0.73
PBS5022-470MT	47	±20%	100kHz	0.097	10	4.0	2.4	PBS5022-681MT	680	±20%	100kHz	1.400	2.5	0.96	0.64
PBS5022-680MT	68	±20%	100kHz	0.138	9	3.0	2.0	PBS5022-102MT	1000	±20%	100kHz	2.010	2	0.80	0.53
PBS5022-101MT	100	±20%	100kHz	0.207	7	2.4	1.7								

Test at 100KHz, 0.1Vrms. Inductance drop 10% typ.at rated Isat ΔT=40°C rise typ. at Irms.