

PB Series Power Inductors



FEATURES

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

APPLICATIONS

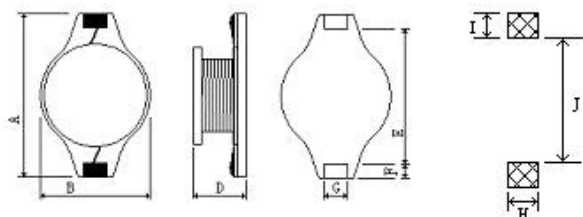
- Portable communication equipment, Notebook Computer
- LCD television
- DC/DC converters

ORDERING CODE

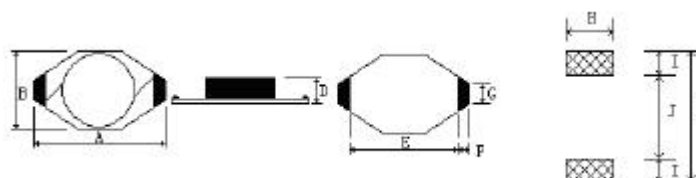
PBO		1608	—	150	M	T			
①		②		③	④	⑤			
①		②		③		④	⑤		
Code		Dimensions (L×W×T) (mm)		Inductance (μH)		Tolerance		Packaging Style	
PBO	PBO Series	1608	6.60×4.45×2.92	150	15	K	±10%	T	Tape&Reel
	Power Inductors	3316	12.95×9.40×5.2	101	100	M	±20%	B	Bulk
PBS	PBS Series	5022	18.54×15.24×7.11	102	1000				
	Power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

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



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 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBO1608-1R0MT	1.0	±20%	100kHz	0.06	130	2.00	2.90
PBO1608-1R5MT	1.5	±20%	100kHz	0.075	115	1.70	2.80
PBO1608-2R2MT	2.2	±20%	100kHz	0.09	90	1.50	2.40
PBO1608-3R3MT	3.3	±20%	100kHz	0.125	70	1.45	2.00
PBO1608-4R7MT	4.7	±20%	100kHz	0.16	50	1.20	1.50
PBO1608-6R8MT	6.8	±20%	100kHz	0.20	45	1.10	1.14
PBO1608-100MT	10	±20%	100kHz	0.25	35	0.90	1.10
PBO1608-150MT	15	±20%	100kHz	0.35	30	0.70	1.20
PBO1608-220MT	22	±20%	100kHz	0.45	20	0.60	0.80
PBO1608-330MT	33	±20%	100kHz	0.60	15	0.55	0.60
PBO1608-470MT	47	±20%	100kHz	0.95	14	0.45	0.50
PBO1608-680MT	68	±20%	100kHz	1.15	11	0.38	0.40
PBO1608-101MT	100	±20%	100kHz	2.00	9	0.31	0.30
PBO1608-151MT	150	±20%	100kHz	2.50	6	0.25	0.25
PBO1608-221MT	220	±20%	100kHz	4.00	5.5	0.20	0.20
PBO1608-331MT	330	±20%	100kHz	5.50	5	0.18	0.16
PBO1608-471MT	470	±20%	100kHz	9.60	4	0.15	0.15
PBO1608-681MT	680	±20%	100kHz	11.50	3	0.12	0.12
PBO1608-102MT	1000	±20%	100kHz	21.00	2	0.08	0.07

PBO3316 Series

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

Test at 100KHz, 0.1Vrms.

Isat: Inductance drop ≤10% typ.at rated Isat

Irms: ΔT≤15°C rise typ. at Irms.

PBO5022 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBO5022-1R0MT	1.0	±20%	100kHz	0.009	80	20	8.6
PBO5022-2R2MT	2.2	±20%	100kHz	0.014	80	16	7.1
PBO5022-3R3MT	3.3	±20%	100kHz	0.018	60	14	6.2
PBO5022-5R6MT	5.6	±20%	100kHz	0.020	40	12	5.3

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBO5022-100MT	10	±20%	100kHz	0.031	30	10	4.3
PBO5022-150MT	15	±20%	100kHz	0.036	22	8.0	4.0
PBO5022-220MT	22	±20%	100kHz	0.047	20	7.0	3.5
PBO5022-330MT	33	±20%	100kHz	0.066	15	5.5	3.0
PBO5022-470MT	47	±20%	100kHz	0.086	9	4.5	2.6
PBO5022-680MT	68	±20%	100kHz	0.130	8	3.5	2.3
PBO5022-101MT	100	±20%	100kHz	0.190	7	3.0	1.8
PBO5022-151MT	150	±20%	100kHz	0.250	6	2.6	1.5
PBO5022-221MT	220	±20%	100kHz	0.380	5	2.4	1.2
PBO5022-331MT	330	±20%	100kHz	0.560	4	1.9	1.0
PBO5022-471MT	470	±20%	100kHz	0.850	3	1.4	0.82
PBO5022-681MT	680	±20%	100kHz	1.100	2.5	1.2	0.72
PBO5022-102MT	1000	±20%	100kHz	1.800	2	1.0	0.56

Test at 100KHz, 0.1Vrms.

Isat: Inductance drop ≤10% typ.at rated Isat

Irms: ΔT≤15°C rise typ. at Irms.

PBS1608 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)
PBS1608-1R0MT	1.0	±20%	100kHz	0.070	250	3.0
PBS1608-1R5MT	1.5	±20%	100kHz	0.085	125	2.8
PBS1608-2R2MT	2.2	±20%	100kHz	0.088	120	1.8
PBS1608-3R3MT	3.3	±20%	100kHz	0.102	120	1.6
PBS1608-4R7MT	4.7	±20%	100kHz	0.115	105	1.4
PBS1608-6R8MT	6.8	±20%	100kHz	0.125	50	1.2
PBS1608-100MT	10	±20%	100kHz	0.150	38	1.0
PBS1608-150MT	15	±20%	100kHz	0.260	33	0.80
PBS1608-220MT	22	±20%	100kHz	0.320	25	0.70
PBS1608-330MT	33	±20%	100kHz	0.360	20	0.60
PBS1608-470MT	47	±20%	100kHz	0.450	20	0.50
PBS1608-680MT	68	±20%	100kHz	1.000	15	0.40
PBS1608-101MT	100	±20%	100kHz	1.200	10	0.30
PBS1608-151MT	150	±20%	100kHz	1.500	9	0.26
PBS1608-221MT	220	±20%	100kHz	2.000	6	0.22
PBS1608-331MT	330	±20%	100kHz	2.500	5	0.20
PBS1608-471MT	470	±20%	100kHz	3.500	4	0.19
PBS1608-681MT	680	±20%	100kHz	8.000	3	0.18
PBS1608-102MT	1000	±20%	100kHz	10.000	2	0.15
PBS1608-152MT	1500	±20%	100kHz	12.500	2	0.12
PBS1608-222MT	2200	±20%	100kHz	16.500	2	0.10
PBS1608-332MT	3300	±20%	100kHz	28.500	1	0.08
PBS1608-472MT	4700	±20%	100kHz	35.000	1	0.06
PBS1608-682MT	6800	±20%	100kHz	40.000	1	0.04
PBS1608-103MT	10000	±20%	100kHz	55.000	0.8	0.02

Test at 100KHz, 0.1Vrms.IDC: ΔT≤30°C rise typ. at Irms.

PBS3316 Series

Part Number	Inductance (μH)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBS3316-1R0MT	1.0	±20%	100kHz	0.021	140	5.6	5.0
PBS3316-1R5MT	1.5	±20%	100kHz	0.022	120	5.2	4.5
PBS3316-2R2MT	2.2	±20%	100kHz	0.032	80	5.0	3.8
PBS3316-3R3MT	3.3	±20%	100kHz	0.039	70	3.9	3.3
PBS3316-4R7MT	4.7	±20%	100kHz	0.054	40	3.2	2.7
PBS3316-6R8MT	6.8	±20%	100kHz	0.075	38	2.8	2.2
PBS3316-100MT	10.0	±20%	100kHz	0.101	35	2.4	2.0

Part Number	Inductance (μ H)	Tolerance	Test Freq.	DCR (Ω)Max	SRF (MHz)	Isat (A)	Irms (A)
PBS3316-150MT	15.0	$\pm 20\%$	100kHz	0.150	25	2.0	1.5
PBS3316-220MT	22.0	$\pm 20\%$	100kHz	0.207	19	1.6	1.3
PBS3316-330MT	33.0	$\pm 20\%$	100kHz	0.334	15	1.4	1.1
PBS3316-470MT	47.0	$\pm 20\%$	100kHz	0.472	13	1.0	0.8

Test at 100KHz, 0.1Vrms.

Isat: Inductance drop $\leq 10\%$ typ.at rated Isat

Irms: $\Delta T \leq 15^\circ\text{C}$ rise typ. at Irms.

PBS5022 Series

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

Test at 100KHz, 0.1Vrms.

Isat: Inductance drop $\leq 10\%$ typ.at rated Isat

Irms: $\Delta T \leq 40^\circ\text{C}$ rise typ. at Irms.