

SMD Power Inductor

XWP-TBRB 1607 / 1608 Series

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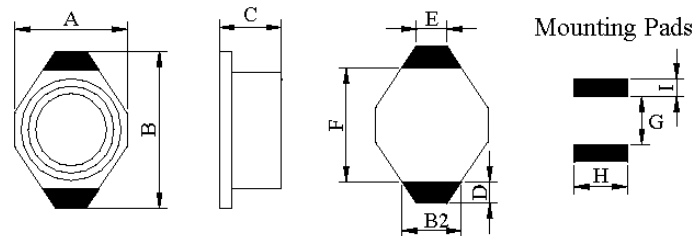


FEATURE:

- High current capacity.
- High energy storage capacity and low DCR.
- Ferrite bobbin core and low profile ,miniature size.
- High heat resistance ,ideal for reflow soldering.

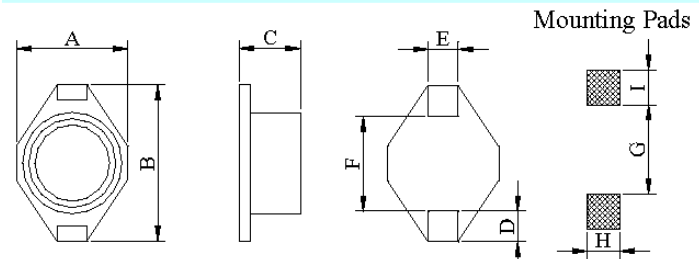
SHAPES&DIMENSION FOR XWP-TBRB1607/1608 SERIES

Unit:mm



SHAPES&DIMENSION FOR XWP-TBRB33xx/5022 SERIES

Unit:mm

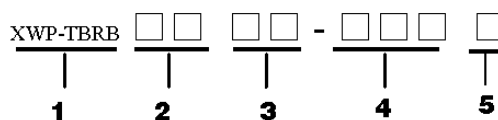


APPLICATION

- Small cell phones
- PDAS(desktop)
- Pagers
- Flash memory programmers
- Notebook computers
- Battery chargers
- DC-DC converters
- Network cards
- Switching boards
- Industrial electronics
- Entertainment electronic devices

Part No.	A	B	B2	C	D
XWP-TBRB1608	4.45MAX	6.60MAX	3.05	2.92MAX	1.02
XWP-TBRB3316	9.50MAX	13.0MAX	-	5.10MAX	2.54
XWP-TBRB5022	15.30MAX	18.6MAX	-	7.62MAX	2.54
Part No.	E	F	G	H	I
XWP-TBRB1608	1.27	4.32	4.06	3.56	1.40
XWP-TBRB3316	2.54	7.62	7.37	2.79	2.92
XWP-TBRB5022	2.54	12.70	12.45	2.79	2.92

PART NUMBERING SYSTEM:



- 3) BODY HEIGHT :m/m
- 4) INDUCTANCE :μH
- 5) TOLERANCE :K 10%, L 15%, M 20%

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SMD POWER INDUCTOR

STANDARD SPECIFICATION

Part Inductance		DCR(Ω)Max.			Rated D.C Current(A)Max.		
No.	L(μ H) \pm 20%	TBRB 1608	TBRB 3316	TBRB 5022	TBRB 1608	TBRB 3316	TBRB 5022
1R0	1.0	0.040	0.021		3.00	5.6	
1R5	1.5	0.045	0.022		2.80	5.2	
2R2	2.2	0.050	0.032		1.80	5.0	
3R3	3.3	0.055	0.039		1.60	3.9	
4R7	4.7	0.060	0.054		1.40	3.2	
6R8	6.8	0.065	0.075		1.20	2.8	
100	10	0.075	0.101	0.040	1.00	2.4	8.00
150	15	0.090	0.150	0.048	0.80	2.0	7.00
220	22	0.110	0.207	0.059	0.70	1.6	6.00
330	33	0.190	0.334	0.075	0.60	1.4	5.00
470	47	0.230	0.472	0.097	0.50	1.0	4.00
680	68	0.290	0.660	0.138	0.40	0.9	3.00
101	100	0.480	1.110	0.207	0.30	0.8	2.40
151	150	0.590	1.550	0.293	0.26	0.6	2.10
221	220	0.770	2.000	0.470	0.22	0.5	1.90
331	330	1.4		0.780	0.20		1.10
471	470	1.8		1.080	0.19		1.10
681	680	2.2		1.400	0.18		0.90
102	1000	3.4	8.300	2.01	0.15	0.32	0.80
152	1500	4.2			0.12		
222	2200	8.5			0.10		
332	3300	11.0			0.08		
472	4700	13.9			0.06		
682	6800	25.0			0.04		
103	10000	32.8			0.02		

1. Test Freq(L): 100KHz 0.25V;

2. Tolerance of Inductance: 1.0-10000 μ H \pm 20%(M);

3. Operating temperature -40 $^{\circ}$ C to +125 $^{\circ}$ C.

4. XWP-TBRB1608 Rms current to cause 30 $^{\circ}$ C temperature rise;

5. XWP-TBRB3316/5022 Saturation current at which the inductance drops 10% (typ) from its value without current;

6. Rms current to for a 40 $^{\circ}$ C rise above 25 $^{\circ}$ C ambient;