

Assembled SMD Power Inductors – WPZ Series

Operating Temp. : -40°C~+125°C (Including self-heating)



FEATURES

- High saturation characteristic core for large saturation current and low loss
- Closed magnetic circuit design reduces leakage flux
- High precision DCR
- Halogen free, RoSH compliant

APPLICATIONS

- Server, desktop computer, notebook
- Graphics, memory
- Industrial equipment, telecomm base station

PRODUCT IDENTIFICATION

WPZ

①

050506

②

S

③

R10

④

K

⑤

T

⑥

① Type	
WPZ	SMD Power Inductor

② External Dimensions(L×W×H) [mm]	
040404	4.0×4.0×4.0
050506	5.0×5.2×6.6
070603	6.4×7.4×3.1
080805	7.5×7.6×5.5
100807	8.0×10.4×7.2
100808	9.8×7.8×7.3
100907	8.7×10.3×6.4
110707	7.2×11.0×7.5
111109	11.2×11.2×9.0
120808	8.0×12.1×8.0
131308	13.0×13.7×8.2
150705	7.0×15.0×5.0

③ Feature Type	
S	Standard Type

④ Nominal Inductance	
Example	Nominal Value
23N	23nH
R10	100nH

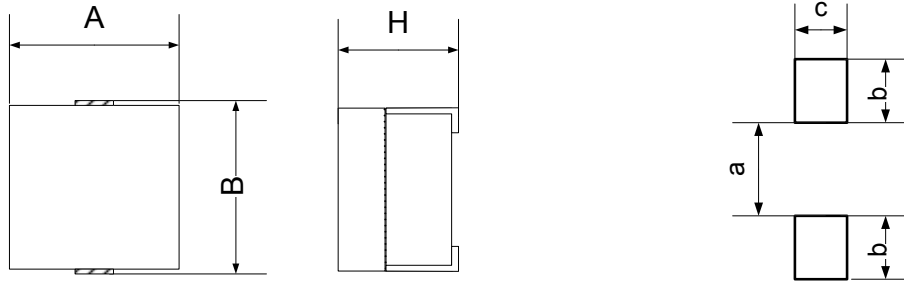
⑤ Inductance Tolerance	
K	±10%

⑥ Packing	
T	Tape & Reel

SHAPE AND DIMENSIONS

Fig.1

Recommended Land Pattern (Typ.)



Unit: mm

Series	A Max.	B Max.	H Max.	a Typ.	b Typ.	c Typ.
WPZ040404	4.0	4.0	4.0	1.1	1.4	1.4
WPZ050506	5.0	5.2	6.6	1.8	1.9	2.0
WPZ070603	6.4	7.4	3.1	1.6	2.5	3.5
WPZ080805	7.5	7.6	5.5	2.3	2.8	3.4
WPZ100705	7.0	10.2	5.0	6.4	2.0	3.0
WPZ100807	8.0	10.3	7.0	4.7	3.3	2.5
WPZ100808	8.1	10.1	7.5	4.9	3.0	2.5
WPZ100907	8.7	10.3	6.4	4.0	3.2	3.7
WPZ110707	7.4	11.0	7.7	3.5	3.7	2.7
WPZ111109	11.0	11.3	9.1	5.5	3.0	2.5
WPZ120808	8.0	12.1	8.0	6.6	3.0	2.5
WPZ131308	12.8	13.7	8.2	7.2	3.2	7.6
WPZ150705	7.0	15.0	5.0	10.0	2.5	4.5

SPECIFICATIONS

WPZ Series

Part Number	Inductance	DC Resistance	Saturation Current	Heat Rating Current
	@100KHz	/	/	/
Units	nH	mΩ	A	A
Symbol	L	DCR	Isat	Irms
WPZ040404S65NKT	65±10%	0.30±25%	24	19
WPZ050506SR10KT	100±10%	0.47±7%	35	40
WPZ050506SR15KT	150±10%		22	
WPZ070603S23NKT	23±10%	0.12±10%	75	70
WPZ080805S32NKT	32±10%	0.17±17%	110	65
WPZ080805S60NKT	60±10%		83	
WPZ080805S70NKT	70±10%		67	
WPZ080805SR10KT	100±10%		50	
WPZ080805SR20KT	200±10%		20	
WPZ100705SR12KT	120±10%	0.35±10%	63	31
WPZ100705SR15KT	150±10%		52	
WPZ100705SR20KT	200±10%		37	
WPZ100705SR30KT	300±10%	0.29±10%	21	60
WPZ100807SR12KT	120±10%		81	
WPZ100807SR14KT	150±10%		72	
WPZ100807SR17KT	170±10%		58	
WPZ100807SR22KT	220±10%		46	
WPZ100807SR30KT	300±10%		32	
WPZ100807SR33KT	330±10%		28	
WPZ100808SR15KT	150±10%	70	56	
WPZ100808SR20KT	200±10%	50		

Sunlord

Specifications subject to change without notice. Please check our website for latest information. Revised 2018/04/15

Sunlord Industrial Park, Dafuyuan Industrial Zone, Guanlan, Shenzhen, China 518110 Tel: 0086-755-29832660 Fax: 0086-755-82269029 E-Mail: sunlord@sunlordinc.com

SPECIFICATIONS

WPZ Series

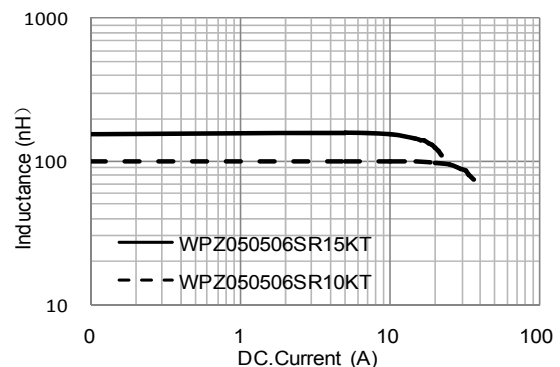
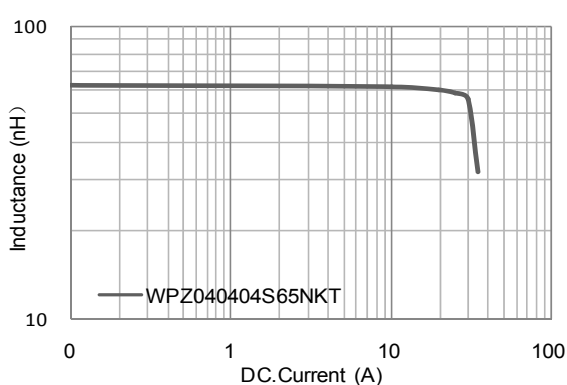
Part Number	Inductance	DC Resistance	Saturation Current	Heat Rating Current
	@100KHz	/	/	/
Units	nH	mΩ	A	A
Symbol	L	DCR	Isat	Irms
WPZ100907S85NKT	85±10%	0.41 max.	81	25
WPZ100907SR12KT	120±10%		57	
WPZ100907SR15KT	150±10%		45	
WPZ110707S70NKT	70±10%	0.29±8%	150	55
WPZ110707SR12KT	120±10%		95	
WPZ110707SR15KT	150±10%		80	
WPZ110707SR17KT	170±10%		70	
WPZ110707SR23KT	230±10%		50	
WPZ110707SR30KT	300±10%		37	
WPZ110707SR40KT	400±10%		25	
WPZ110707SR50KT	500±10%		18	
WPZ111109SR20KT	200±10%	0.42±10%	90	35
WPZ111109SR25KT	250±10%		70	
WPZ111109SR27KT	270±10%		60	
WPZ111109SR30KT	300±10%		55	
WPZ111109SR47KT	470±10%		30	
WPZ111109SR56KT	560±10%		25	
WPZ111109S1R0KT	1000±10%	12		
WPZ120808SR15KT	150±10%	0.29±15%	85	50
WPZ120808SR18KT	180±10%		72	
WPZ120808SR21KT	210±10%		65	
WPZ120808SR23KT	230±10%		61	
WPZ120808SR25KT	250±10%	55		
WPZ131308SR11KT	110±10%	0.19±10%	140	68
WPZ131308SR21KT	210±10%		80	
WPZ131308SR26KT	260±10%		60	
WPZ131308SR32KT	320±10%		45	
WPZ131308SR44KT	440±10%		35	
WPZ150705SR10KT	100±10%	0.47±7%	105	53
WPZ150705SR12KT	120±10%		87	
WPZ150705SR15KT	150±10%		72	
WPZ150705SR25KT	250±10%		42	
WPZ150705SR30KT	300±10%		35	
WPZ150705SR40KT	400±10%		24	

※1: Isat: DC current at which the inductance drops less than 20% from its value without current;

※2: Iirms: DC current that causes the temperature rise (ΔT) from 25°C ambient when two coils connected in series; ΔT is approximate 40°C.

TYPICAL ELECTRICAL CHARACTERISTICS

Inductance vs. DC Current Characteristics



Without notice, please check our website for latest information. Revised 2016/04/15

TYPICAL ELECTRICAL CHARACTERISTICS

Inductance vs. DC Current Characteristics

