



The new WIP series of Inpaq are wirewound power inductors in chip size. The construction consists of enamelled copper wire spring coil, molded inside a metal alloy powder paste. Core material with best permeability and lowest core loss, combined with a highly efficient production method result in coils with excellent performance and best competitiveness.

METAL ALLOY MOLDING / WIRE WOUND POWER INDUCTOR WIP TYPE



FEATURES

- High saturation current, up to 6.8 A
- Low DCR, down to 16 mΩ
- Very low core loss
- Suitable for frequency up to 10 MHz
- Excellent EMI
- **Referenced by Qualcomm / Snapdragon**

APPLICATIONS

- DC/DC converters with high switching frequency
- Portable devices
- Industrial application
- Automotive electronics
- Consumer products

ELECTRICAL CHARACTERISTICS (T _{op} =25°C)					
SERIES	TYPE	INDUCTANCE (μH)	RDC (mΩ) TYP.	Isat (A) TYP.	SIZE L×W×H (mm)
WIP201610PL	WIP-P (standard)	0.33 ... 2.2	24 ... 135	1.9 ... 5.0	2.0±0.2 × 1.6±0.2 × 1.0 max.
WIP201610SL	WIP-S (high performance)	0.33 ... 2.2	21 ... 117	2.6 ... 6.7	2.0±0.2 × 1.6±0.2 × 1.0 max.
WIP252010PL	WIP-P (standard)	0.22 ... 4.7	9 ... 220	1.8 ... 7.9	2.5±0.2 × 2.0±0.2 × 1.0 max.
WIP252010SL	WIP-S (high performance)	0.33 ... 2.2	17 ... 88	3.3 ... 7.8	2.5±0.2 × 2.0±0.2 × 1.0 max.
WIP252012PL	WIP-P (standard)	0.47 ... 4.7	21 ... 196	1.9 ... 5.3	2.5±0.2 × 2.0±0.2 × 1.2 max.
WIP252012SL	WIP-S (high performance)	0.47 ... 2.2	16 ... 74	3.5 ... 6.8	2.5±0.2 × 2.0±0.2 × 1.2 max.

(TYPE) RDC / ISAT / IDC (MAX)			
INDUCTANCE L (μH)	2,0 x 1,6 x 1,0 [mm]	2,5 x 2,0 x 1 [mm]	2,5 x 2,0 x 1,2 [mm]
0,22		(P) 12,5 mΩ / 7,2 A / 5,3 A	
0,33	(P) 29 mΩ / 4,5 A / 3,69 A	(P) 26 mΩ / 6 A / 4 A	
	(S) 26 mΩ / 6,1 A / 4,0 A	(S) 22 mΩ / 7,0 A / 4,8 A	
0,47	(P) 40 mΩ / 4,0 A / 3,15 A	(P) 32 mΩ / 4,5 A / 3,51 A	(P) 25 mΩ / 4,95 A / 4,18 A
	(S) 30 mΩ / 5,3 A / 4,05 A	(S) 29 mΩ / 6,0 A / 4,4 A	(S) 22 mΩ / 6,2 A / 4,9 A
0,68	(P) 49 mΩ / 3,33 A / 3,06 A	(P) 44 mΩ / 3,87 A / 3,06 A	(P) 35 mΩ / 4,63 A / 3,36 A
1,0	(P) 69 mΩ / 2,61 A / 2,26 A	(P) 54 mΩ / 3,15 A / 2,7 A	(P) 49 mΩ / 4,04 A / 3,18 A
	(S) 60 mΩ / 3,3 A / 3,0 A	(S) 52 mΩ / 4,0 A / 3,1 A	(S) 44 mΩ / 4,3 A / 3,3 A
1,5	(P) 129 mΩ / 2,25 A / 1,81 A	(P) 91 mΩ / 2,34 A / 2,25 A	(P) 77 mΩ / 2,91 A / 2,27 A
	(S) 99 mΩ / 3,1 A / 2,2 A	(S) 77 mΩ / 3,5 A / 2,3 A	
2,2	(P) 150 mΩ / 1,71 A / 1,50 A	(P) 119 mΩ / 2,16 A / 2,07 A	(P) 98 mΩ / 2,73 A / 2,06 A
	(S) 140 mΩ / 2,45 A / 2,0 A	(S) 110 mΩ / 3,0 A / 2,1 A	(S) 89 mΩ / 3,2 A / 2,2 A
4,7		(P) 262 mΩ / 1,62 A / 1,22 A	(P) 235 mΩ / 1,58 A / 1,4 A

P= standard, S= high performance, WIP= standard, WIPC= for automotive