Wire Wound SMD Power Inductors - WPN Series

Operating temperature range: -40°C~+125°C (Including self-heating)



FEATURES

- Fe base metal material core provides large saturation current
- Metallization on ferrite core results in excellent shock resistance and damage-free durability
- Closed magnetic circuit design reduces leakage flux and Electro Magnetic Interference (EMI)
- Low DCR decreases power loss, small and slim take up less PCB real estate
- Automatic production ensures high quality and consistency

APPLICATIONS

- Smart phone, set top box, VR, AR
- Notebooks, desktop computers, servers
- Portable gaming devices, personal navigation systems, personal multimedia devices

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PRODUCT IDENTIFICATION

1	Туре
WPN	Wire Wound SMD Power Inductor

③ Feature Type					
Н	Н Туре				
М	М Туре				
U	U Type				
UF	UF Type				
Е	E Type				
HS	HS Type				
F	F Type				

Nominal Inductance						
Example	Nominal Value					
R47	0.47μΗ					
2R2	2.2µH					

⑤ Inductance Tolerance						
N	±30%					
М	±20%					

<u>2R2</u>	<u>M</u>	<u>T</u>	
4	5	<u></u>	7

② External Dimensions (LxWxH) [mm]						
201610	2.0×1.6×1.0					
201612	2.0×1.6×1.2					
252010	2.5×2.0×1.0					
252012	2.5×2.0×1.2					
3010	3.0×3.0×1.0					
3012	3.0×3.0×1.2					
4010	4.0×4.0×1.0					
4012	4.0×4.0×1.2					
4020	4.0×4.0×2.0					

⑥ Packing							
Т	Tape & Reel						

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□□□ Design Code							
* Sta	* Standard product is blank						

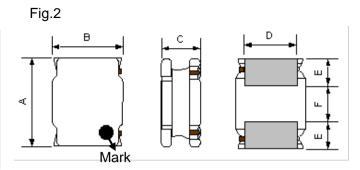


SHAPE AND DIMENSIONS

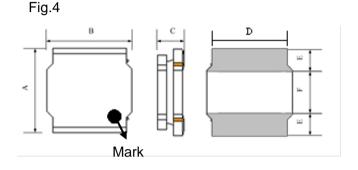
Fig.3

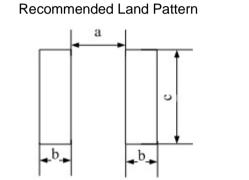
Fig.5

Fig.1



Mark





С F Series Shape Α В D Ε а Тур. b Typ. с Тур. WPN201610H/HS/F Fig.1 2.0±0.2 1.6±0.2 1.0 Max. 1.5±0.2 0.6 ± 0.2 0.8±0.2 0.7 0.7 1.7 WPN201610M 2.0±0.2 1.6±0.2 1.2±0.2 0.6 ± 0.2 0.8±0.2 Fig.2 1.0 Max. 0.7 0.7 1.7 WPN201610U/UF Fig.3 2.0±0.2 1.6±0.2 1.0 Max. 1.6±0.2 0.6 ± 0.2 0.8 ± 0.2 0.7 0.7 1.7 WPN201612H 0.7 1.7 Fig.1 2.0 ± 0.2 1.6±0.2 1.2 Max. 1.2±0.2 0.6 ± 0.2 0.8 ± 0.2 0.7 WPN252010H/HS/F 2.5±0.2 2.0 ± 0.2 1.0 Max. 1.65±0.2 0.8 ± 0.2 0.8 ± 0.2 0.85 2.0 Fig.1 8.0 WPN252010U/UF Fig.3 2.5±0.2 2.0±0.2 1.0 Max. 2.0±0.2 0.6 ± 0.2 1.3±0.2 1.20 0.80 2.0 0.8 ± 0.2 WPN252012H/HS Fig.1 2.5 ± 0.2 2.0±0.2 1.2 Max. 1.65±0.2 0.8 ± 0.2 8.0 0.85 2.0 WPN252012E 2.0 Fig.1 2.5 ± 0.2 2.0 ± 0.2 1.65±0.2 0.8 ± 0.2 0.8 ± 0.2 8.0 0.85 1.2 Max. **WPN3010HS** 3.0 ± 0.2 Fig.4 3.0 ± 0.2 1.0 Max. 2.6±0.2 0.75 ± 0.2 1.5±0.2 1.5 8.0 3.2 WPN3012H/HS Fig.4 3.0 ± 0.2 3.0 ± 0.2 2.6±0.2 0.75±0.2 1.5±0.2 1.5 3.2 1.2 Max. 8.0 **WPN4010HS** Fig.5 4.0 ± 0.2 4.0±0.2 3.1±0.2 0.95 ± 0.2 2.1±0.2 1.9 1.1 3.7 1.0 Max. WPN4012H/HS Fig.5 4.0 ± 0.2 4.0 ± 0.2 1.2 Max. 3.1±0.2 0.95 ± 0.2 2.1±0.2 1.9 1.1 3.7 WPN4020H Fig.5 4.0 ± 0.2 4.0 ± 0.2 2.0 Max. 3.1±0.2 0.95 ± 0.2 2.1±0.2 1.9 1.1 3.7

D

Unit: mm

WPN201610H Series

Part Number	Inductance	DC Res	sistance	e Self-resonant Frequency Saturation Current		n Current	Heat Rating Current		
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.	
Units	μH	2	2	MHz	,	4	A		
Symbol	L	DO	CR	S.R.F	Is	at	Irms		
WPN201610HR24MT	0.24±20%	0.040	0.033	145	4.50	5.50	3.00	3.45	
WPN201610HR47MT	0.47±20%	0.049	0.041	102	4.00	4.70	2.70	3.10	
WPN201610HR68MT	0.68±20%	0.065	0.057	77	3.50	4.00	2.50	2.80	
WPN201610H1R0MT	1.0±20%	0.090	0.075	70	3.35	3.85	2.05	2.35	
WPN201610H1R0MTY01	1.0±20%	0.070	0.060	65	2.60	3.05	2.20	2.55	
WPN201610H1R5MT	1.5±20%	0.130	0.110	45	1.95	2.30	1.70	2.00	
WPN201610H2R2MT	2.2±20%	0.170	0.142	39	1.90	2.15	1.45	1.70	
WPN201610H4R7MT	4.7±20%	0.425	0.370	25	1.20	1.50	0.90	1.00	
WPN201610H100MT	10±20%	0.826	0.688	15	0.80	0.95	0.65	0.75	

WPN201610HS Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current		
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.	
Units	μH	Ω		MHz	Α		Α		
Symbol	L	DCR		S.R.F	Is	at	Ir	ms	
WPN201610HS4R7MT	4.7±20%	0.425	0.370	25	1.50	1.70	0.90	1.00	
WPN201610HS100MT	10±20%	0.826	0.688	15	0.95	1.10	0.65	0.75	

WPN201610M Series

Part Number	Inductance	DC Res	sistance	Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	A		А	
Symbol	L	DCR		S.R.F	Isat		Irms	
WPN201610MR24MT	0.24±20%	0.026	0.022	160	5.90	6.80	4.35	4.80
WPN201610MR33MT	0.33±20%	0.038	0.032	120	5.50	6.00	3.40	3.80
WPN201610MR47MT	0.47±20%	0.044	0.037	107	4.30	5.20	3.00	3.30
WPN201610MR68MT	0.68±20%	0.060	0.050	92	3.60	4.20	2.60	3.00
WPN201610M1R0MT	1.0±20%	0.090	0.075	52	3.35	3.85	2.05	2.35
WPN201610M2R2MT	2.2±20%	0.160	0.135	41	1.80	2.00	1.60	1.75

WPN201610F Series

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Part Number	Inductance	DC Res	sistance	Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	A	4	A	
Symbol	L	DO	CR	S.R.F Isat		Irms		
WPN201610FR47MT	0.47±20%	0.033	0.028	102	4.50	5.00	3.60	4.10
WPN201610FR68MT	0.68±20%	0.045	0.037	77	3.20	3.70	3.10	3.60
WPN201610F1R0MT	1.00±20%	0.060	0.050	70	3.00	3.50	2.60	3.00
WPN201610F1R5MT	1.50±20%	0.110	0.095	45	2.80	3.20	2.00	2.30
WPN201610F2R2MT	2.20±20%	0.120	0.100	39	1.80	2.10	1.90	2.20
WPN201610F2R2MTY01	2.20±20%	0.152	0.142	39	2.40	2.60	1.80	2.00
WPN201610F4R7MT	4.70±20%	0.288	0.240	25	1.30	1.50	1.25	1.45



WPN201610U Series

Part Number	Inductance	DC Res	sistance	Self-resonant Frequency	Saturatio	n Current	Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	Ω	MHz	A	A		A
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN201610UR12MT	0.12±20%	0.015	0.012	250	9.50	11.00	5.60	6.50
WPN201610UR33MT	0.33±20%	0.025	0.022	121	5.50	6.00	4.10	4.70
WPN201610UR47MT	0.47±20%	0.033	0.028	110	4.50	5.00	3.60	4.10
WPN201610UR47MTY03	0.47±20%	0.033	0.028	110	4.70	5.00	4.10	4.70
WPN201610UR68MT	0.68±20%	0.045	0.037	78	3.20	3.70	3.10	3.60
WPN201610U1R0MT	1.0±20%	0.060	0.050	63	3.00	3.50	2.60	3.00
WPN201610U1R0MTY01	1.0±20%	0.060	0.050	63	3.60	3.80	3.10	3.40
WPN201610U1R5MT	1.5±20%	0.110	0.095	50	2.80	3.20	2.00	2.30
WPN201610U2R2MT	2.2±20%	0.120	0.100	44	1.80	2.10	1.90	2.20
WPN201610U2R2MTY01	2.2±20%	0.138	0.115	44	2.40	2.60	2.00	2.20

WPN201610UF Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.			Max.	Тур.	Max.	Тур.
Units	μH	2	Ω	MHz	A		A	
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN201610UFR47MT	0.47±20%	0.025	0.022	110	5.50	6.00	4.80	5.50
WPN201610UF1R0MT	1.0±20%	0.045	0.038	63	4.00	4.50	3.65	4.20
WPN201610UF1R5MT	1.5±20%	0.083 0.073		34	3.00	3.40	2.75	3.15
WPN201610UF2R2MT	2.2±20%	0.100	0.093	28	2.70	3.00	2.45	2.80

WPN201612H Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current		
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.	
Units	μH	2	Ω	MHz	A	Α	A		
Symbol	L	DO	CR	S.R.F	Is	at	Irms		
WPN201612HR24MT	0.24±20%	0.023	0.019	116	5.85	6.75	4.50	5.20	
WPN201612HR33MT	0.33±20%	0.031	0.026	95	5.15	6.00	3.85	4.45	
WPN201612HR47MT	0.47±20%	0.041	0.034	84	3.95	4.60	3.40	3.90	
WPN201612H1R5MT	1.5±20%	0.109 0.091		42	1.90	2.35	2.10	2.45	
WPN201612H2R2MT	2.2±20%	0.146	0.122	32	1.70	2.00	1.80	2.05	

WPN252010H Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	2	MHz	A	A		Α
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN252010HR33MT	0.33±20%	0.039	0.033	117	4.80	5.50	3.50	4.05
WPN252010HR47MT	0.47±20%	0.045	0.038	80	4.40	5.20	3.20	3.70
WPN252010HR68MT	0.68±20%	0.059	0.049	65	3.20	3.60	2.75	3.20
WPN252010H1R0MT	1.0±20%	0.076	0.063	46	3.10	3.50	2.50	2.90
WPN252010H1R5MT	1.5±20%	0.106	0.088	40	2.60	3.00	2.00	2.30
WPN252010H2R2MT	2.2±20%	0.155	0.129	26	1.90	2.20	1.50	1.80
WPN252010H3R3MT	3.3±20%	0.235	0.196	24	1.60	1.80	1.20	1.40
WPN252010H4R7MT	4.7±20%	0.276	0.230	19	1.30	1.50	1.10	1.30
WPN252010H100MT	10±20%	0.500	0.435	12	0.90	1.00	0.80	0.90



WPN252010HS Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	2	MHz	,	4	A	
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN252010HS4R7MT	4.7±20%	0.276	0.230	19	1.30	1.50	1.10	1.30
WPN252010HS4R7MTY01	4.7±20%	0.290 0.250		19	1.55	1.80	1.05	1.20
WPN252010HS100MT	10±20%	0.500	0.435	12	1.10	1.30	0.80	0.90

WPN252010F Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	2	MHz	A	4		A
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN252010FR33MT	0.33±20%	0.025	0.021	117	6.00	6.70	4.40	5.10
WPN252010FR47MT	0.47±20%	0.030	0.025	80	5.30	5.80	4.00	4.60
WPN252010FR68MT	0.68±20%	0.043	0.036	65	5.20	5.70	3.30	3.80
WPN252010F1R0MT	1.0±20%	0.050	0.042	46	4.10	4.60	3.10	3.60
WPN252010F1R5MT	1.5±20%	0.076	0.063	40	3.00	3.40	2.40	2.80
WPN252010F2R2MT	2.2±20%	0.096	0.080	26	2.60	2.90	2.05	2.40
WPN252010F3R3MT	3.3±20%	0.168	0.140	24	2.10	2.40	1.65	1.90
WPN252010F4R7MT	4.7±20%	0.240	0.200	19	1.90	2.20	1.40	1.60

WPN252010U Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	Ω	MHz	A	A		A
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN252010UR16MT	0.16±20%	0.020	0.016	214	10.0	12.0	5.00	5.80
WPN252010UR24MT	0.24±20%	0.025	0.021	149	8.50	10.0	4.40	5.10
WPN252010UR33MT	0.33±20%	0.025	0.021	117	6.00	6.70	4.40	5.10
WPN252010UR33MTY01	0.33±20%	0.030	0.025	100	6.80	7.60	4.00	4.60
WPN252010UR33MTY02	0.33±20%	0.030	0.025	100	8.50	9.50	4.00	4.60
WPN252010UR47MT	0.47±20%	0.030	0.025	92	5.30	5.80	4.00	4.60
WPN252010UR68MT	0.68±20%	0.043	0.036	67	5.20	5.70	3.30	3.80
WPN252010U1R0MT	1.0±20%	0.050	0.042	54	4.10	4.60	3.10	3.60
WPN252010U1R0MTY01	1.0±20%	0.060	0.050	62	4.90	5.60	3.00	3.50
WPN252010U1R5MT	1.5±20%	0.076	0.063	41	3.00	3.40	2.40	2.80
WPN252010U2R2MT	2.2±20%	0.096	0.080	34	2.60	2.90	2.05	2.40
WPN252010U4R7MT	4.7±20%	0.240	0.200	22	1.90	2.20	1.40	1.60

WPN252010UF Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	Ω	MHz	A	Ą		A
Symbol	L	DO	CR	S.R.F	Is	at	Irms	
WPN252010UFR47MT	0.47±20%	0.019	0.017	90	6.00	6.60	6.70	7.50
WPN252010UFR68MT	0.68±20%	0.032	0.027	65	5.40	6.20	4.80	5.50
WPN252010UF1R0MT	1.0±20%	0.038	0.032	46	4.70	5.20	4.50	5.20
WPN252010UF1R5MT	1.5±20%	0.054	0.045	40	2.80	3.20	3.60	4.20
WPN252010UF2R2MT	2.2±20%	0.070	0.064	30	2.80	3.10	3.10	3.60
WPN252010UF2R2MTY01	2.2±20%	0.085	0.071	28	3.20	3.50	2.90	3.30
WPN252010UF4R7MT	4.7±20%	0.130	0.110	19	1.60	1.80	2.00	2.30

WPN252012H Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	2	MHz	,	A		A
Symbol	L	DO	CR	S.R.F	Is	at	lr	ms
WPN252012HR24MT	0.24±20%	0.023	0.019	117	6.50	7.80	4.05	4.70
WPN252012HR33MT	0.33±20%	0.028	0.023	104	5.30	6.20	3.70	4.30
WPN252012HR47MT	0.47±20%	0.035	0.029	89	4.90	5.60	3.45	4.00
WPN252012HR68MT	0.68±20%	0.043	0.036	67	3.70	4.30	3.15	3.60
WPN252012H1R0MT	1.0±20%	0.054	0.048	52	3.60	4.20	3.00	3.40
WPN252012H1R5MT	1.5±20%	0.072	0.060	38	2.90	3.50	2.40	2.80
WPN252012H2R2MT	2.2±20%	0.120	0.100	32	2.60	3.00	1.90	2.15
WPN252012H2R2MTY01	2.2±20%	0.102	0.085	36	2.30	2.70	2.10	2.40
WPN252012H3R3MT	3.3±20%	0.163	0.136	25	1.70	2.10	1.80	2.05
WPN252012H4R7MT	4.7±20%	0.260	0.225	23	1.60	1.90	1.25	1.45
WPN252012H6R8MT	6.8±20%	0.366	0.305	16	1.15	1.35	0.95	1.10
WPN252012H100MT	10±20%	0.480	0.435	14	1.10	1.35	0.85	1.00

WPN252012HS Series

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Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Мах. Тур.		Max.	Тур.
Units	μH	2	Ω	MHz	,	4		A
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN252012HS4R7MT	4.7±20%	0.260 0.225		23	1.70	1.90	1.25	1.45
WPN252012HS100MT	10±20%	0.480	0.435	14	1.10	1.35	0.85	1.00

WPN252012E Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	Ω	MHz	A	4	Α	
Symbol	L	DO	CR	S.R.F	Is	at	Ir	ms
WPN252012ER33MT	0.33±20%	0.026	0.020	107	8.00	9.00	4.50	5.10
WPN252012ER47MT	0.47±20%	0.032 0.026		92	7.00	8.00	4.10	4.70
WPN252012E1R0MT	1.0±20%	0.044	0.037	52	4.50	5.00	3.50	3.90



WPN3010HS Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	2	Ω	MHz	A	4	A	
Symbol	L	DCR		S.R.F	Is	at	Ir	ms
WPN3010HS100MT	10±20%	0.432 0.360		16	1.00	1.20	1.20	1.40

WPN3012H Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	A		A	
Symbol	L	DCR		S.R.F	Isat		Irms	
WPN3012HR33MT	0.33±20%	0.027	0.023	107	7.20	8.90	4.20	4.85
WPN3012HR47MT	0.47±20%	0.033	0.028	86	6.80	8.00	3.90	4.50
WPN3012HR68MT	0.68±20%	0.042	0.035	63	5.80	6.80	3.40	3.90
WPN3012H1R0MT	1.0±20%	0.054	0.045	51	4.20	5.40	2.70	3.10
WPN3012H1R5MT	1.5±20%	0.074	0.064	37	3.40	4.10	2.50	2.90
WPN3012H2R2MT	2.2±20%	0.108	0.090	28	2.80	3.35	2.05	2.35
WPN3012H3R3MT	3.3±20%	0.155	0.129	25	2.20	2.60	1.70	2.00
WPN3012H4R7MT	4.7±20%	0.235	0.196	20	2.00	2.50	1.30	1.50
WPN3012H6R8MT	6.8±20%	0.340	0.290	16	1.60	1.90	1.10	1.25
WPN3012H100MT	10±20%	0.474	0.395	12	1.20	1.45	1.00	1.15

WPN3012HS Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	А		А	
Symbol	L	DCR		S.R.F	Isat		Irms	
WPN3012HS4R7MT	4.7±20%	0.235	0.196	20	2.00	2.50	1.30	1.50
WPN3012HS6R8MT	6.8±20%	0.312	0.260	21	2.40	2.70	1.10	1.25
WPN3012HS100MT	10±20%	0.474	0.395	12	1.35	1.65	1.00	1.15
WPN3012HS100MTY01	10±20%	0.415	0.360	17	1.90	2.15	1.35	1.55
WPN3012HS150MT	15±20%	0.635	0.550	13	1.55	1.75	1.10	1.25

WPN4010HS Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Мах. Тур.		Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	А		А	
Symbol	L	DCR		S.R.F	Isat		Irms	
WPN4010HS100MT	10±20%	0.335	0.280	10	1.40	1.65	1.40	1.65

WPN4012H Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	А		Α	
Symbol	L	DCR		S.R.F	Isat		Irms	
WPN4012HR33MT	0.33±20%	0.032	0.027	113	10.30	11.50	4.30	4.90
WPN4012HR47MT	0.47±20%	0.041	0.034	96	9.10	9.90	3.80	4.40
WPN4012HR68MT	0.68±20%	0.041	0.034	70	5.50	6.35	3.80	4.40
WPN4012H1R0MT	1.0±20%	0.059	0.049	55	5.70	6.60	3.20	3.70



WPN4012H/HS Series

Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	A		A	
Symbol	L	DCR		S.R.F	Isat		Irms	
WPN4012H1R0MTY01	1.0±20%	0.049	0.041	56	4.50	5.30	3.60	4.20
WPN4012H1R2MT	1.2±20%	0.059	0.049	48	4.00	4.80	3.20	3.70
WPN4012H1R5MT	1.5±20%	0.070	0.058	38	3.90	4.60	2.90	3.30
WPN4012H2R2MT	2.2±20%	0.079	0.066	28	2.80	3.30	2.70	3.10
WPN4012H3R3MT	3.3±20%	0.125	0.104	23	2.80	3.30	2.10	2.50
WPN4012H4R7MT	4.7±20%	0.166	0.138	19	2.30	2.60	1.90	2.20
WPN4012H6R8MT	6.8±20%	0.226	0.188	17	1.60	2.20	1.60	1.85
WPN4012H100MT	10±20%	0.335	0.279	12	1.55	1.85	1.30	1.50
WPN4012H220MT	22±20%	0.679	0.566	7	1.05	1.30	0.90	1.05
WPN4012HS4R7MT	4.7±20%	0.162	0.135	28	2.60	3.00	2.05	2.35
WPN4012HS100MT	10±20%	0.276	0.230	12	1.80	2.10	1.55	1.75

WPN4020H Series

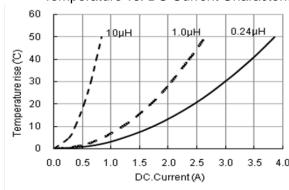
Part Number	Inductance	DC Resistance		Self-resonant Frequency	Saturation Current		Heat Rating Current	
	@1MHz	Max.	Тур.	Min.	Max.	Тур.	Max.	Тур.
Units	μH	Ω		MHz	Ä		A	
Symbol	L	DCR		S.R.F	Isat		Irms	
WPN4020HR22MT	0.22±20%	0.013	0.011	108	18.70	22.00	8.20	9.50
WPN4020HR47MT	0.47±20%	0.022	0.018	72	13.40	15.50	6.40	7.40
WPN4020HR68MT	0.68±20%	0.022	0.018	57	8.70	11.10	6.40	7.40
WPN4020H1R0MT	1.0±20%	0.026	0.022	37	8.70	11.10	5.80	6.70
WPN4020H1R5MT	1.5±20%	0.036	0.030	30	7.70	9.60	5.20	6.00
WPN4020H2R2MT	2.2±20%	0.048	0.040	25	6.10	7.60	4.30	5.00
WPN4020H3R3MT	3.3±20%	0.072	0.060	19	4.70	5.90	3.45	4.00
WPN4020H4R7MT	4.7±20%	0.108	0.090	17	4.00	4.90	2.85	3.30
WPN4020H6R8MT	6.8±20%	0.156	0.130	13	3.00	4.20	2.40	2.80
WPN4020H100MT	10±20%	0.216	0.180	11	2.80	3.50	2.00	2.35

- %1: All test data is referenced to 20°C ambient;
- ※2: Rated current: Isat or Irms, whichever is smaller;
- 3: For WPN2016 & WPN2520 size inductors, absolute maximum voltage: DC 25V; For WPN30 & WPN40 size inductors, absolute maximum voltage: DC 40V;
- *Isat: DC current at which the inductance drops approximate 30% from its value without current;
- %Irms: DC current that causes the temperature rise (\triangle T =40°C) from 20°C ambient.
- *WPN-HS series is processed with surface coating technology, coated by the resin of high voltage insulation level coating on the core surface evenly by automatic equipment, to improve the voltage insulation and corrosion resistance of the core.

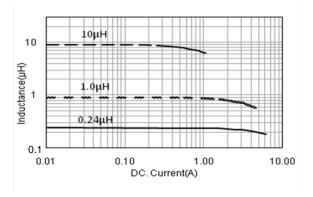
TYPICAL ELECTRICAL CHARACTERISTICS

WPN201610H Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

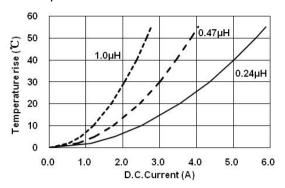




TYPICAL ELECTRICAL CHARACTERISTICS

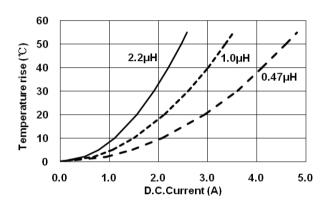
WPN201610M Series

Temperature vs. DC Current Characteristics

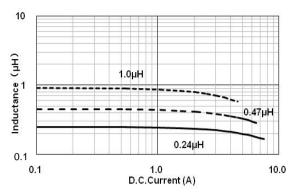


WPN201610U Series

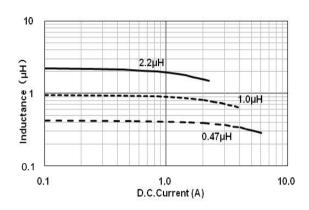
Temperature vs. DC Current Characteristics





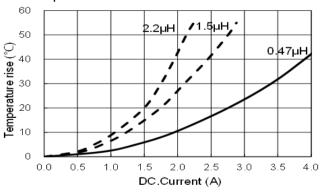


Inductance vs. DC Current Characteristics

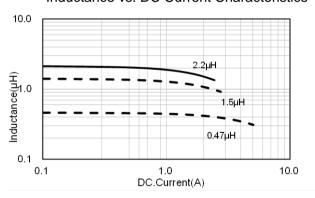


WPN201612H Series

Temperature vs. DC Current Characteristics

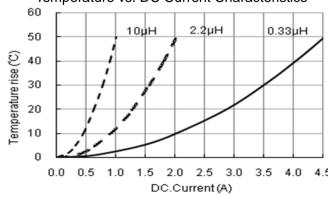


Inductance vs. DC Current Characteristics

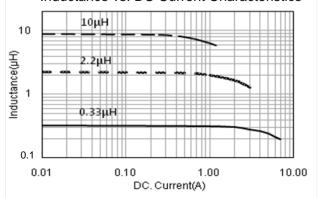


WPN252010H Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



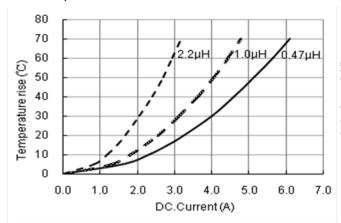


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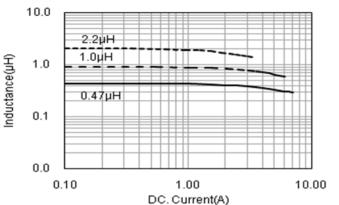
TYPICAL ELECTRICAL CHARACTERISTICS

WPN252010U Series

Temperature vs. DC Current Characteristics

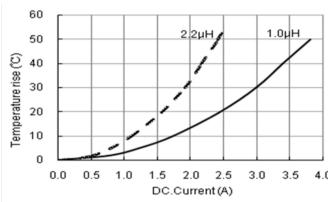


Inductance vs. DC Current Characteristics

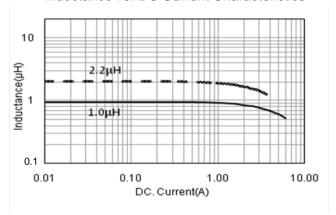


WPN252012H Series

Temperature vs. DC Current Characteristics

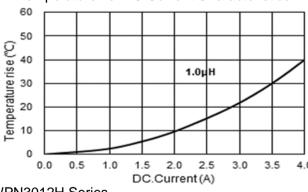


Inductance vs. DC Current Characteristics

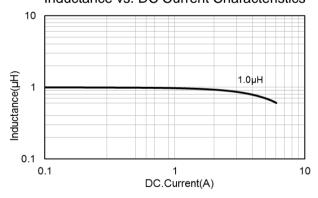


WPN252012E Series

Temperature vs. DC Current Characteristics

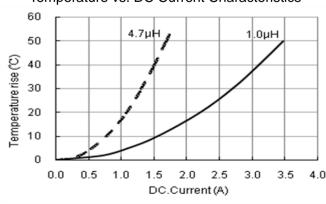


Inductance vs. DC Current Characteristics

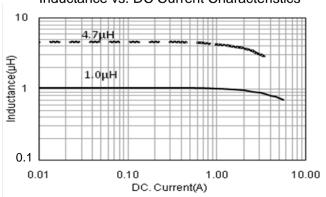


WPN3012H Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

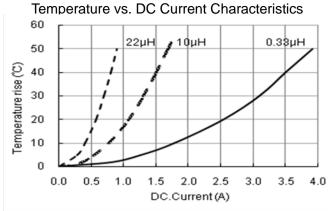




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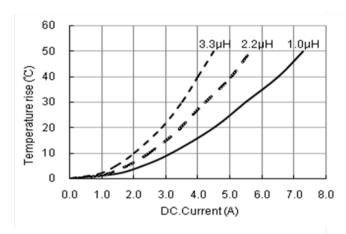
TYPICAL ELECTRICAL CHARACTERISTICS

WPN4012H Series

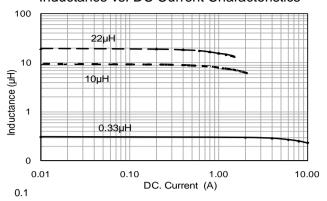


WPN4020H Series

Temperature vs. DC Current Characteristics



Inductance vs. DC Current Characteristics



Inductance vs. DC Current Characteristics

