

SMD shielded Power Inductors -WNRS Series

WNRS4018S SERIES

Electrical Characteristics

Part No.	Inductance	RDC		SRF	Isat		I _{rms}	
	(μ H) @100KHZ,1V	(Ω)Max.	(Ω)Typ.	(MHZ)Min.	(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
WNRS4018SR22T	0.22 \pm 30%	0.013	0.010	338	6.30	7.25	5.50	6.30
WNRS4018SR24T	0.24 \pm 30%	0.017	0.013	320	9.35	11.00	4.05	4.65
WNRS4018SR47T	0.47 \pm 30%	0.018	0.014	155	4.30	5.20	4.00	4.50
WNRS4018SR68T	0.68 \pm 30%	0.026	0.020	128	4.90	5.60	3.30	3.80
WNRS4018S1R0T	1.0 \pm 30%	0.033	0.025	80	4.80	5.20	2.00	3.30
WNRS4018S1R2T	1.2 \pm 30%	0.033	0.025	74	3.40	4.00	2.00	3.30
WNRS4018S1R5T	1.5 \pm 30%	0.039	0.030	65	3.35	4.00	1.80	3.20
WNRS4018S1R8T	1.8 \pm 30%	0.044	0.034	54	3.00	3.40	2.00	2.80
WNRS4018S2R2T	2.2 \pm 20%	0.059	0.045	52	2.70	3.20	1.65	2.60
WNRS4018S3R3M	3.3 \pm 20%	0.091	0.070	44	2.45	2.90	1.23	2.10
WNRS4018S3R6M	3.6 \pm 20%	0.117	0.090	51	2.50	2.90	1.20	1.80
WNRS4018S4R7M	4.7 \pm 20%	0.117	0.090	34	1.70	2.20	1.20	1.80
WNRS4018S5R6M	5.6 \pm 20%	0.139	0.107	41	1.60	1.84	1.50	1.73
WNRS4018S6R8M	6.8 \pm 20%	0.143	0.110	29	1.45	2.00	1.06	1.50
WNRS4018S8R2M	8.2 \pm 20%	0.221	0.170	33	1.40	1.50	1.40	1.50
WNRS4018S100M	10 \pm 20%	0.234	0.180	24	1.30	1.60	0.84	1.20
WNRS4018S150M	15 \pm 20%	0.325	0.250	19	0.94	1.10	0.65	1.00
WNRS4018S180M	18 \pm 20%	0.572	0.440	13	1.30	1.45	0.85	0.95
WNRS4018S220M	22 \pm 20%	0.468	0.360	16	0.80	0.88	0.59	0.85
WNRS4018S270M	27 \pm 20%	0.611	0.470	27	0.47	0.62	0.52	0.90
WNRS4018S330M	33 \pm 20%	0.689	0.530	12	0.56	0.75	0.49	0.72
WNRS4018S470M	47 \pm 20%	0.845	0.650	10	0.57	0.70	0.42	0.65
WNRS4018S560M	56 \pm 20%	1.300	1.000	15	0.61	0.73	0.32	0.36
WNRS4018S680M	68 \pm 20%	1.300	1.000	8.3	0.47	0.51	0.32	0.52
WNRS4018S101M	100 \pm 20%	2.275	1.750	6.5	0.40	0.44	0.25	0.41
WNRS4018S151M	150 \pm 20%	3.250	2.500	5.5	0.31	0.34	0.22	0.36
WNRS4018S221M	220 \pm 20%	5.200	4.000	4.0	0.27	0.30	0.17	0.27

Notes:

1. tolerance K= \pm 10% / M= \pm 20% / T= \pm 30%
2. All test data is referenced to 25 $^{\circ}$ C ambient.
3. Operating temperature range -40 $^{\circ}$ C ~ 125 $^{\circ}$ C (Including self - temperature rise)
4. Rated current: Isat or I_{rms}, whichever is smaller;
5. Isat: DC current at which the inductance drops approximate 30% from its value without current;
6. I_{rms}: DC current that causes the temperature rise (Δ T =40 $^{\circ}$ C) from 20 $^{\circ}$ C ambient.
7. Measure Equipment :
L : Agilent/ E4980 or HP4284A (under 1MHz), HP4285A (over 1MHz)
RDC : Chroma 16502
Isat : HP4284+42841A or WK3260B+WK3265B
8. Test Condition:
Temperature:26 \pm 3 $^{\circ}$ C
Humidity:<70% RH

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Curve:

