

SMD shielded Power Inductors -WNRS Series

WNRS6040S SERIES

Electrical Characteristics

Part No.	Inductance	RDC		SRF	Isat		Irms	
	(μH)@100KHZ,1V	(Ω)Max.	(Ω)Typ.	(MHZ)Min.	(A)Max.	(A)Typ.	(A)Max.	(A)Typ.
WNRS6040S1R0M	1.0 \pm 20%	0.010	0.008	97	7.85	9.05	6.30	7.20
WNRS6040S1R5M	1.5 \pm 20%	0.016	0.012	47	7.40	8.51	4.50	5.18
WNRS6040S2R2M	2.2 \pm 20%	0.019	0.015	35	7.50	8.63	4.80	5.50
WNRS6040S4R7M	4.7 \pm 20%	0.027	0.023	25	4.50	5.00	4.00	4.70
WNRS6040S6R8M	6.8 \pm 20%	0.052	0.040	21	4.25	4.90	2.97	3.43
WNRS6040S8R2M	8.2 \pm 20%	0.059	0.045	18	3.30	4.00	2.80	3.20
WNRS6040S100M	10 \pm 20%	0.062	0.048	16	3.20	3.50	2.45	2.80
WNRS6040S120M	12 \pm 20%	0.075	0.058	14	2.80	3.25	2.20	2.55
WNRS6040S150M	15 \pm 20%	0.088	0.068	13	2.50	3.00	2.05	2.35
WNRS6040S180M	18 \pm 20%	0.108	0.083	11	2.30	2.75	1.85	2.10
WNRS6040S220M	22 \pm 20%	0.116	0.089	10	2.05	2.50	1.80	2.05
WNRS6040S330M	33 \pm 20%	0.178	0.137	9.9	1.65	2.00	1.45	1.65
WNRS6040S470M	47 \pm 20%	0.287	0.221	6.7	1.40	1.61	1.18	1.36
WNRS6040S680M	68 \pm 20%	0.370	0.285	5.6	1.15	1.40	0.95	1.10
WNRS6040S101M	100 \pm 20%	0.502	0.418	3.8	0.92	1.08	0.96	1.10
WNRS6040S121M	120 \pm 20%	0.663	0.510	5.2	0.91	1.10	0.80	0.90
WNRS6040S181M	180 \pm 20%	1.001	0.770	3.8	0.69	0.83	0.64	0.72
WNRS6040S221M	220 \pm 20%	1.430	1.100	2.9	0.70	0.80	0.55	0.64
WNRS6040S331M	330 \pm 20%	1.490	1.240	2.4	0.52	0.58	0.52	0.58
WNRS6040S471M	470 \pm 20%	2.500	1.790	2.0	0.42	0.50	0.47	0.55

Notes:

1. tolerance K= \pm 10% / M= \pm 20%/ T= \pm 30%
2. All test data is referenced to 25°C ambient.
3. Operating temperature range -40°C ~ 125°C (Including self - temperature rise)
4. Rated current: Isat or Irms, whichever is smaller;
5. Isat: DC current at which the inductance drops approximate 30% from its value without current;
6. Irms: DC current that causes the temperature rise ($\Delta T = 40^\circ\text{C}$) from 20°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°C
Humidity: <70% RH

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Curve:

