

WI Series **SMD Power Inductor** **Size 1812**



CHARACTERISTICS

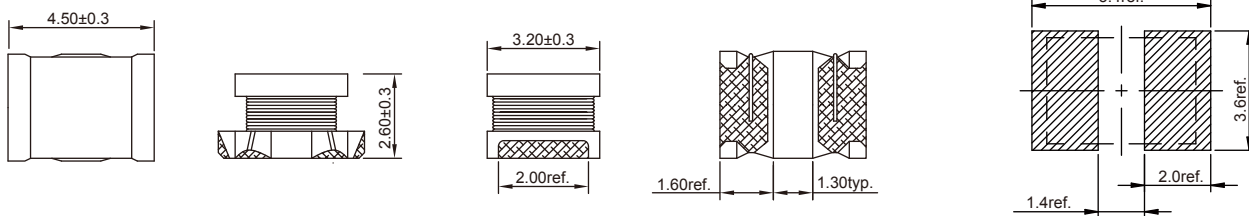
- Nizn material with a high Q at high frequency
- Different sizes and wide inductances available
- Quantity: 500pcs

APPLICATION

- Low power DC/DC converter
- Filter
- General circuit application

Dimensions: [mm]

Land Pattern: [mm]



Electrical Properties:

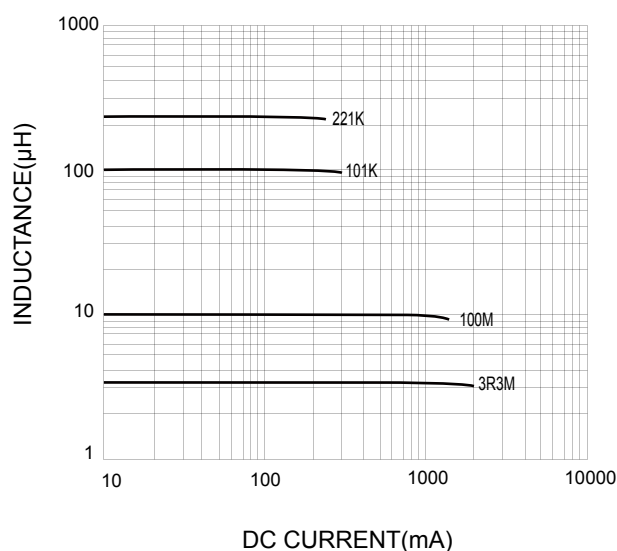
Part No	Inductance (μH)	Tolerance	Q Ref.	SRF Min. (MHz)	DCR Max. (Ω)	Temperature Rise Current Max. (mA) ΔT=20℃	Temperature Rise Current Max. (mA) ΔT=40℃
WI1812-1R0M	1.0	±20%	40	165	0.08	1400	1800
WI1812-1R5M	1.5	±20%	42	130	0.09	1350	1750
WI1812-1R8M	1.8	±20%	45	100	0.1	1300	1700
WI1812-2R2M	2.2	±20%	40	80	0.11	1250	1600
WI1812-2R7M	2.7	±20%	40	63	0.12	1200	1500
WI1812-3R3M	3.3	±20%	45	58	0.13	1000	1400
WI1812-3R9M	3.9	±20%	40	54	0.14	960	1320
WI1812-4R7M	4.7	±20%	36	45	0.15	940	1240
WI1812-5R6M	5.6	±20%	36	41	0.18	920	1180
WI1812-6R8M	6.8	±20%	36	37	0.2	860	1100
WI1812-8R2M	8.2	±20%	36	34	0.25	780	1000
WI1812-100M	10	±20%	48	30	0.3	750	950
WI1812-120M	12	±20%	48	28	0.42	700	800
WI1812-150M	15	±20%	45	26	0.5	650	730
WI1812-180M	18	±20%	42	22	0.6	570	680
WI1812-220K	22	±10%	50	20	0.7	460	630
WI1812-330K	33	±10%	55	18	1.1	330	430

Part No	Inductance (μH)	Tolerance	Q Ref.	SRF Min. (MHz)	DCR Max. (Ω)	Temperature Rise Current Max. (mA) ΔT=20 °C	Temperature Rise Current Max. (mA) ΔT=40 °C
WI1812-470K	47	±10%	60	15	1.5	285	390
WI1812-680K	68	±10%	58	11	2.1	230	330
WI1812-820K	82	±10%	60	11	2.2	215	300
WI1812-101K	100	±10%	60	10	2.5	200	270
WI1812-151K	150	±10%	55	8.5	3.7	165	220
WI1812-221K	220	±10%	45	6.3	5.4	130	185
WI1812-331K	330	±10%	55	5.8	11.5	100	120
WI1812-391K	390	±10%	50	5.2	13	95	110
WI1812-471K	470	±10%	50	5.0	14.2	85	105
WI1812-561K	560	±10%	53	4.5	15.5	80	100
WI1812-681K	680	±10%	45	3.5	16.8	75	90
WI1812-821K	820	±10%	50	2.8	20	70	85
WI1812-102K	1000	±10%	30	2.5	30	60	70
WI1812-122K	1200	±10%	30	2.3	33.5	45	60
WI1812-152K	1500	±10%	35	2.0	38.5	40	55
WI1812-182K	1800	±10%	35	1.8	44	35	50
WI1812-222K	2200	±10%	30	1.6	47	30	40

Operating temperature : -40 °C to +125 °C

Typical Electrical Characteristics:

Inductance VS. DC Current Characteristics:



Impedance VS. Frequency Characteristics:

