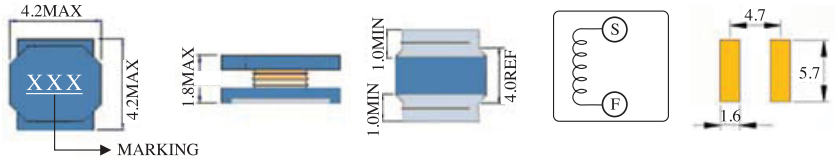
OWI4018 TYPE



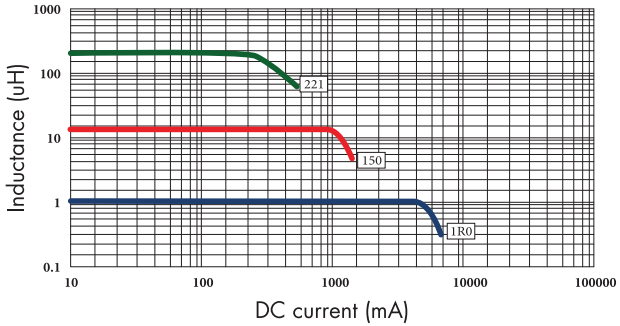
FEATURES

1. Low DC resistance, high rated current and high inductance.
   Inductance: 1.0 to 220uH.
2. The series exhibits low voltage drops and small variations in inductance with respect to temperature rise and DC current level. This makes them excellent for use as power supply line choke coils.

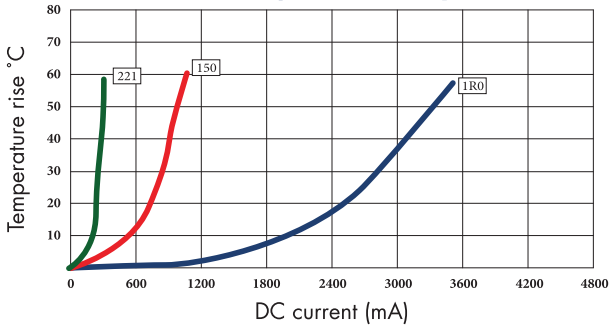
APPLICATIONS

1. Portable communication, equipments.
2. DC/DC converters, etc.

OWI4018 Inductance decrease by current



OWI4018 Temperature rise by current



ELECTRICAL CHARACTERISTICS FOR OWI4018 SERIES

Part Number	Inductance (uH)[1]	Test Frequency	DC Resistance (Ω MAX)[2]	Saturation Current (A)[3]	Temperature Current (A)[4]
OWI4018-1R0	1.0	100KHZ	30m	4.00	2.75
OWI4018-2R2	2.2	100KHZ	60m	2.70	2.22
OWI4018-3R3	3.3	100KHZ	84m	2.00	1.99
OWI4018-4R7	4.7	100KHZ	97m	1.70	1.61
OWI4018-6R8	6.8	100KHZ	141m	1.45	1.23
OWI4018-100	10	100KHZ	210m	1.20	1.10
OWI4018-150	15	100KHZ	321m	0.94	0.86
OWI4018-220	22	100KHZ	500m	0.80	0.70
OWI4018-330	33	100KHZ	676m	0.65	0.60
OWI4018-470	47	100KHZ	996m	0.57	0.50
OWI4018-680	68	100KHZ	1.38	0.47	0.40
OWI4018-101	100	100KHZ	2.22	0.40	0.32
OWI4018-151	150	100KHZ	3.00	0.31	0.25
OWI4018-221	220	100KHZ	4.20	0.27	0.22

1. Inductance tested at 0.25V. Tolerance of inductance:
   1uH: ±30%(N) 2.2uH~220uH: ±20%(M)
2. DCR test temp. limits 25°C.
3. This indicates the value of current when the inductance is 30% lower than its initial value at D.C. superposition or D.C. current.
4. To load current onto the components under normal ambience, which cause the temp, change as Δt=40°C or more lower current.
5. Please refer saturated current or the minimum temperature current as standard.