

Features

- Magnetically shielded construction
- Low leakage field
- Recommended solder profile: Reflow
- Operating temperature: -40°C to +125°C



Application

- Low power DC/DC-converters
- Portable for PDA

Product Identification

KWPI 5818 2R2 N
 ① ② ③ ④

①	Type
KWPI	Wire Wound SMD Power Inductor

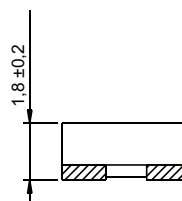
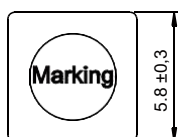
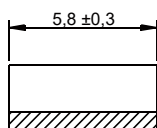
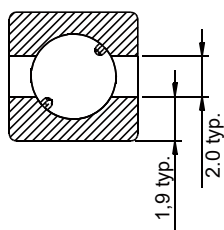
②	External Dimensions (L×W×H) [mm]
5818	5.8x5.8x1.8

③	Nominal Inductance
example	Nominal Value
101	100 uH
2R2	2.2 uH

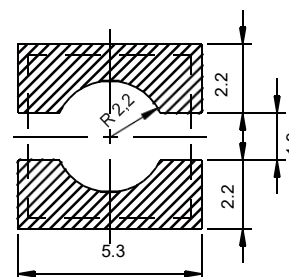
④	Inductance Tolerance
example	Nominal Value
N	±30%

SHAPE AND DIMENSIONS

Dimensions: [mm]



Land Pattern: [mm]



SPECIFICATIONS

KWPI 5818 series

PN	L(uH)	Tol. L	Ir(A)	Isat(A)	RDC typ.(mΩ)	RDC max.(mΩ)	NiZn
KWPI5818-R12N	1.2	±30%	3	3.5	20	30	
KWPI5818-R18N	1.8	±30%	2.6	3	24	35	
KWPI5818-R25N	2.5	±30%	2.4	2.7	30	40	
KWPI5818-3R0N	3	±30%	2.2	2.4	35	45	
KWPI5818-3R9N	3.9	±30%	2	2.1	50	55	
KWPI5818-5R0N	5	±30%	1.65	1.8	50	60	
KWPI5818-6R2N	6.2	±30%	1.45	1.6	70	80	
KWPI5818-7R5N	7.5	±30%	1.35	1.5	70	90	
KWPI5818-9R0N	9	±30%	1.25	1.35	90	130	
KWPI5818-100N	10	±30%	1.1	1.25	105	130	
KWPI5818-120N	12	±30%	1	1.15	130	160	
KWPI5818-150N	15	±30%	0.95	1.1	150	190	
KWPI5818-180N	18	±30%	0.9	1	185	210	
KWPI5818-220N	22	±30%	0.8	0.9	240	280	
KWPI5818-270N	27	±30%	0.78	0.8	250	320	
KWPI5818-470N	47	±30%	0.77	0.7	530	550	
KWPI5818-680N	68	±30%	0.64	0.5	840	850	
KWPI5818-101N	100	±30%	0.35	0.42	815	1100	
KWPI5818-221N	220	±30%	0.23	0.3	2400	2500	
KWPI5818-471N	470	±30%	0.14	0.18	4175	5550	

Notes:

- Electrical specifications at 25℃
- Temperature rise current: The actual value of DC current when the temperature rise is $\Delta T 30^{\circ}\text{C}$
- Isat Base on $\Delta L/L0A=35\%$ typ